

Grayson College Course Catalog



- [General Information](#)
- [Tuition and Fees](#)
- [General Academic Policies](#)
- [Academic Regulations](#)
- [Student Services and Activities](#)
- [Instructional Services](#)

Collision Repair Tech

Overview

Grayson College's Collision Repair Technologies program offers three levels of training and skills. Many students start with the Basic Collision Helper Certificate, then build on those skills with the Basic Collision Apprentice Certificate. The highest level is the Associate of Applied Science degree. Grayson College's courses teach the skills recommended by area employers who work in the industry. The program is offered on the Main Campus in the new Career and Technology Center, which is equipped with the latest technology.

Course Requirements

Associate Degree, The Basic Collision Helper Certificate and The Basic Collision Apprentice Certificate require that you have a High School Diploma or GED certificate. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with an Entry Level Technician Certificate or an Associate of Applied Science Degree in Collision Repair Technologies requires successful completion of a Comprehensive Exam.

Local Employers

Bob Utter Ford, Texoma Ford, Team Bonner Chevrolet, Ramey Chevrolet

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
ABDR 1519 (Basic Metal Repair)	5
ABDR 1431 (Basic Refinishing)	4
ABDR 1307 (Auto Body Welding)	3
ABDR 1555 (Minor Metal Repair)	5
ABDR 1558 (Intermediate Refinishing)	5
WLDG 1430 (Introducing to Gas Metal Arc (MIG) Welding)	4

*Mathematics/Life & Physical Science Core	3
ABDR 1411 (Vehicle Measurement and Damage Repair Procedures)	4
ABDR 2502 (Auto Body Mechanical and Electrical Service)	5
* SPCH 1311 , 1315 or 1321	3
Social & Behavioral Science Core	3
ABDR 1453 (Fiberglass Repair)	4
BUSG 2309 (Small Business Management)	3
*Lang, Phil, Culture/Creative Arts Core	3
ABDR 2355 (Collision Repair Estimating)	3
ENGL 1301 (Composition I)	3

* Check with Advisor.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

Certificate Degree Requirements

Basic Collision Apprentice Certificate

Subject	Semester Hours
ABDR 1519 (Basic Metal Repair)	5
ABDR 1431 (Basic Refinishing)	4
ABDR 1555 (Minor Metal Repair)	5
ABDR 1558 (Intermediate Refinishing)	5
ABDR 1411 (Vehicle Measurement and Damage Repair Procedures)	4
ABDR 2502 (Auto Body Mechanical and Electrical Service)	5
ABDR 1453 (Fiberglass Repair)	4
ABDR 2355 (Collision Repair Estimating)	3
Any 2 of these courses	8-10
ABDR 1555 (Minor Metal Repair)	5
ABDR 1558 (Intermediate Refinishing)	5
ABDR 1411 (Vehicle Measurement and Damage Repair Procedures)	4
ABDR 2502 (Auto Body Mechanical and Electrical Service)	5
ABDR 1453 (Fiberglass Repair)	4
ABDR 2355 (Collision Repair Estimating)	3
Any 2 of these not yet completed	8-10
ABDR 1555 (Minor Metal Repair)	5
ABDR 1558 (Intermediate Refinishing)	5
ABDR 1411 (Vehicle Measurement and Damage Repair Procedures)	4
ABDR 2502 (Auto Body Mechanical and Electrical Service)	5
ABDR 1453 (Fiberglass Repair)	4
ABDR 2355 (Collision Repair Estimating)	3
Any 2 of these not yet completed	8-10

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

Basic Collision Helper Certificate

Subject	Semester Hours
ABDR 1519 (Basic Metal Repair)	5
ABDR 1431 (Basic Refinishing)	4
ABDR 1555 (Minor Metal Repair)	5
ABDR 1558 (Intermediate Refinishing)	5
ABDR 1411 (Vehicle Measurement and Damage Repair Procedures)	4
ABDR 2502 (Auto Body Mechanical and Electrical Service)	5
ABDR 1453 (Fiberglass Repair)	4
ABDR 2355 (Collision Repair Estimating)	3
Any 2 of these courses	8-10

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ABDR 1307 - Auto Body Welding

Fundamentals of automotive welding processes. Skill development in Oxy/acetylene, SMAW, GMAW, and cutting processes in a variety of applications.

Upon completion, students will be able to:

- Skill development in Oxy/acetylene, SMAW, GMAW, and cutting processes in a variety of applications.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ABDR 1411 - Vehicle Measurement and Damage Repair Procedures

Introduction to damaged vehicle measurement and alignment systems.

Upon completion, students will be able to:

- Introduction to damaged vehicle measurement and alignment systems.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 1431 - Basic Refinishing

An introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Emphasis on surface preparation, masking techniques, and refinishing of trim and replacement parts.

Upon completion, students will be able to:

- current refinishing products, shop safety, and equipment used in the automotive refinishing industry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

ABDR 1453 - Fiberglass Repair

A comprehensive course in automotive fiberglass repair including the use of various adhesive, fiberglass matt, and resins used for proper repair procedures

Upon completion, students will be able to:

- fiberglass repair including the use of various adhesive, fiberglass matt, and resins used for proper repair procedures

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 1519 - Basic Metal Repair

Basic current metal working techniques, shop safety, proper tool usage, product application, and skill development utilizing various body features including metal principles.

Upon completion, students will be able to:

- Basic current metal working techniques, shop safety, proper tool usage, product application, and skill development utilizing various body features including metal principles.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 5.0

ABDR 1555 - Minor Metal Repair

A course in sheet metal alignment principles using mechanical and hydraulic equipment. Emphasis on attachment devices used to straighten and align exterior body panels.

Upon completion, students will be able to:

- sheet metal alignment principles using mechanical and hydraulic equipment.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 5.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 1558 - Intermediate Refinishing

Expanded training in mixing and spraying of automotive topcoats. Emphasis on formula ingredient, reducing, thinning, and special spraying techniques. Introduction to partial panel refinishing techniques and current industry paint removal techniques.

Upon completion, students will be able to:

- mixing and spraying of automotive topcoats. Emphasis on formula ingredient, reducing, thinning, and special spraying techniques

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 5.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 2355 - Collision Repair Estimating

An advanced course in collision estimating and development of an accurate damage report

Upon completion, students will be able to:

- collision estimating and development of an accurate damage report

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
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ABDR 2502 - Auto Body Mechanical and Electrical Service

A course in the repair, replacement, and/or service of collision damaged mechanical or electrical systems. Topics include drive train removal, reinstallation and service; cooling system service and repair; exhaust system service; and emission control systems. Additional topics include wire and connector repair, reading wiring diagrams, and troubleshooting.

Upon completion, students will be able to:

- repair, replacement, and/or service of collision damaged mechanical or electrical systems

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 5.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor

Accounting

Overview

Every organization profit or non-profit, large or small needs an accountant. The accounting program at Grayson College prepares students for entry level positions in CPA firms, small businesses, manufacturing firms, banks, hospitals, school systems churches, and governmental agencies.

The Associate of Applied Science Degree and the one-year certificate in accounting are designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the "language of business," accountants assemble and analyze, process and communicate essential information about financial operations.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

Graduation with the Associate of Applied Science degree requires successful completion of ACNT 2302. The one-year certificate requires the successful completion of a comprehensive exit exam administered by the Accounting Department. The exam must be completed with at least 70 percent accuracy during the week prior to final exams of the semester in which the coursework is completed.

Local Employers

CIGNA, Wilson N. Jones, TMC, Grayson County offices, TI

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
* ACCT 2301 or ACNT 1303 and ACNT 1304	3
ENGL 1301 (Composition I)	3
BUSI 1301 (Business Principles)	3
ITSW 1304 (Intro to Spreadsheet)	3
BUSG 1304 (Financial Literacy)	3

ACCT 2302 (Principles of Managerial Acct.)	3
MRKG 1311 (Principles of Marketing)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
BMGT 1305 (Communications in Management)	3
ACNT 1331 (Federal Income Tax - Individual)	3
SPCH 1311 (Intro to Speech)	3
*Mathematics/Life & Physical Science	3
*Language, Philosophy, Culture/Creative Arts	3
ACNT 1311 (Intro to Computerized Acct.)	3
ACNT 1313 (Computerized Accounting Applications)	3
BUSG 2305 (Business Law/Contracts)	3
ACNT 2302 (CAPSTONE- Principles of Managerial Acct.)	3
COSC 1301 (Intro to Computer Science)	3
ACNT 1329 (Payroll and Business Tax Acct.)	3
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Students may substitute alternate courses or choose electives under the direction of the division dean. To graduate, students must demonstrate college readiness in reading, writing, and math, as specified in the College's Developmental Education Plan.

Capstone Requirement: All students must complete the required capstone course Accounting (ACNT) 2302 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

1 Year Certificate Programs

Subject	Semester Hours
ACCT 2301 or ACNT 1303 and ACNT 1304	3
ACNT 1311 (Intro to Computerized Acct.)	3
BUSI 1301 (Business Principles)	3
BMGT 1305 (Communications in Management)	3
BUSG 1304 (Financial Literacy)	3
ACCT 2302 (Principles of Managerial Accounting)	3
ACNT 1329 (Payroll and Business Tax Acct.)	3
ACNT 1331 (Federal Income Tax - Individual)	3
ITSW 1304 (Intro to Spreadsheet)	3
ACNT 1313 (Computerized Accounting Applications)	3
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Students may substitute alternate courses or choose electives under the direction of the division dean.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a Capstone experience.

Accounting Marketable Skills Award

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
ITSW 1304 (Intro to Spreadsheet)	3
ACNT 1313 (Computerized Accounting Applications)	3
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Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ACCT 2301 - Principles of Financial Accounting

Basic concepts and principles of accounting theory and practice for recording, reporting and analyzing financial information in various forms of business enterprise. (R)

Upon completion, students will be able to:

- Concepts and Principles of accounting

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ACCT 2302 - Principles of Managerial Accounting

A continuation of ACCT 2301. Accounting for partnerships and corporations, presentation and analysis of financial statements, stockholders, equity, earnings, dividends, long-term liabilities, investments, income tax, cost accounting, and the managerial uses of accounting data.

Upon completion, students will be able to:

- presentation and analysis of financial statements, stockholders, equity, earnings, dividends, long-term liabilities, investments, income tax, cost accounting

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting
 - [ACNT 1303](#) - Introduction to Accounting I
 - [ACNT 1304](#) - Introduction to Accounting II
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Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (U.S. History I)	3
ENGL 1301 (Composition I)	3
MATH 1324 (Math for Business I) or higher	3
MATH 1325 (Math for Business II) or higher	3
SPCH 1321 (Business & Professional Communication)	1
HIST 1302 (U.S. History II)	3
ENGL 1301 (Composition II)	3
*Component Area Option	3
ACCT 2301 (Principles of Financial Acct.)	3
HUMA 1301 (Intro to Humanities I) or Huma 1302 (Intro to Humanities II)	3
GOVT 2305 (Federal Government)	1
GEOL 1301 (Earth Sciences)	1
GEOL 1101 (Earth Sciences Lab I)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2301 (Principles of Financial Acct.)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2302 (Principles of Managerial Accounting)	3
GOVT 2306 (Texas Government)	3
ARTS 1301 or DRAM or MUSI 1306	3
BIOL 1308 (Biol for Non-Science Majors)	3
BIOL 1108 (Biol Lab for Non-Science Majors)	1
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Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
ACNT 1304 (Intro to Accounting II)	3
BGMT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1321 or SPCH 1311	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
*Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Business and Society - Capstone)	3
*Language, Philosophy & Culture Core	3
60	

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304 (Intro to Accounting II)	3
BMGT 1305 (Communications in Management)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1311 or 1321	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resource Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
Capstone Exam	
31	

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
Certificate Capstone Exam	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302 (Principles of Retailing)	3
MRKG 1311 (Principles of Marketing)	3
MRKG 2333 (Principles of Selling)	3
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Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ACGR 1407 - Range Management

Study of the practical problems of managing native pastures and range lands. Topics include range land ecology, stocking rates, rotation systems, toxic plants, range reseeding, brush control, and ecological and physiological responses of range vegetation to grazing.

Upon completion, students will be able to:

- Study of the practical problems of managing native pastures and range lands

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

Accounting

Overview

Every organization profit or non-profit, large or small needs an accountant. The accounting program at Grayson College prepares students for entry level positions in CPA firms, small businesses, manufacturing firms, banks, hospitals, school systems churches, and governmental agencies.

The Associate of Applied Science Degree and the one-year certificate in accounting are designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the "language of business," accountants assemble and analyze, process and communicate essential information about financial operations.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

Graduation with the Associate of Applied Science degree requires successful completion of ACNT 2302. The one-year certificate requires the successful completion of a comprehensive exit exam administered by the Accounting Department. The exam must be completed with at least 70 percent accuracy during the week prior to final exams of the semester in which the coursework is completed.

Local Employers

CIGNA, Wilson N. Jones, TMC, Grayson County offices, TI

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
* ACCT 2301 or ACNT 1303 and ACNT 1304	3
ENGL 1301 (Composition I)	3
BUSI 1301 (Business Principles)	3
ITSW 1304 (Intro to Spreadsheet)	3
BUSG 1304 (Financial Literacy)	3
ACCT 2302 (Principles of Managerial Acct.)	3

MRKG 1311 (Principles of Marketing)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
BMGT 1305 (Communications in Management)	3
ACNT 1331 (Federal Income Tax - Individual)	3
SPCH 1311 (Intro to Speech)	3
*Mathematics/Life & Physical Science	3
*Language, Philosophy, Culture/Creative Arts	3
ACNT 1311 (Intro to Computerized Acct.)	3
ACNT 1313 (Computerized Accounting Applications)	3
BUSG 2305 (Business Law/Contracts)	3
ACNT 2302 (CAPSTONE- Principles of Managerial Acct.)	3
COSC 1301 (Intro to Computer Science)	3
ACNT 1329 (Payroll and Business Tax Acct.)	3
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Students may substitute alternate courses or choose electives under the direction of the division dean. To graduate, students must demonstrate college readiness in reading, writing, and math, as specified in the College's Developmental Education Plan.

Capstone Requirement: All students must complete the required capstone course Accounting (ACNT) 2302 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

1 Year Certificate Programs

Subject	Semester Hours
ACCT 2301 or ACNT 1303 and ACNT 1304	3
ACNT 1311 (Intro to Computerized Acct.)	3
BUSI 1301 (Business Principles)	3
BMGT 1305 (Communications in Management)	3
BUSG 1304 (Financial Literacy)	3
ACCT 2302 (Principles of Managerial Accounting)	3
ACNT 1329 (Payroll and Business Tax Acct.)	3
ACNT 1331 (Federal Income Tax - Individual)	3
ITSW 1304 (Intro to Spreadsheet)	3
ACNT 1313 (Computerized Accounting Applications)	3
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Students may substitute alternate courses or choose electives under the direction of the division dean.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a Capstone experience.

Accounting Marketable Skills Award

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
ITSW 1304 (Intro to Spreadsheet)	3
ACNT 1313 (Computerized Accounting Applications)	3
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	9

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ACNT 1303 - Introduction to Accounting I

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliation, and payroll. (R)

Upon completion, students will be able to:

- analyzing, classifying, and recording business transactions in a manual and computerized environment

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ACNT 1304 - Introduction to Accounting II

A study of accounting for merchandising, notes payable, notes receivable, valuation of receivables and equipment, and valuation of inventories in a manual and computerized environment.

Upon completion, students will be able to:

- A study of accounting for merchandising, notes payable, notes receivable, valuation of receivables and equipment, and valuation of inventories in a manual and computerized environment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ACNT 1303](#) - Introduction to Accounting I
-

ACNT 1311 - Introduction to Computerized Accounting

Introduction to utilizing the computer in maintaining accounting records with primary emphasis on a general ledger package.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ACNT 1313 - Computerized Accounting Applications

Use of the computer to develop and maintain accounting record, and to process common business applications for managerial decision-making. (R)

Upon completion, students will be able to:

- develop and maintain accounting record, and to process common business applications for managerial decision-making

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ACNT 1329 - Payroll and Business Tax Accounting

A study of payroll procedures, taxing entities, and reporting requirements of local, state, and federal taxing authorities in a manual and computerized environment.

Upon completion, students will be able to:

- payroll procedures, taxing entities, and reporting requirements of local, state, and federal taxing authorities

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ACNT 1331 - Federal Income Tax: Individual

A study of the federal tax law for preparation of individual income tax returns.

Upon completion, students will be able to:

- Federal Tax law and Preparation of Individual Income tax returns

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting
 - [ACNT 1303](#) - Introduction to Accounting I
 - [ACNT 1304](#) - Introduction to Accounting II
-

ACNT 2302 - Accounting Capstone

Allows students to apply broad knowledge of the accounting profession through discipline specific projects involving the integration of individuals and teams performing activities to simulate workplace situations.

Upon completion, students will be able to:

- Allows students to apply broad knowledge of the accounting profession through discipline specific projects involving the integration of individuals and teams performing activities to simulate workplace situations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Only AAS Accounting majors may enroll In this course
-

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (U.S. History I)	3
ENGL 1301 (Composition I)	3
MATH 1324 (Math for Business I) or higher	3
MATH 1325 (Math for Business II) or higher	3
SPCH 1321 (Business & Professional Communication)	1
HIST 1302 (U.S. History II)	3
ENGL 1301 (Composition II)	3
*Component Area Option	3
ACCT 2301 (Principles of Financial Acct.)	3
HUMA 1301 (Intro to Humanities I) or Huma 1302 (Intro to Humanities II)	3
GOVT 2305 (Federal Government)	1
GEOL 1301 (Earth Sciences)	1
GEOL 1101 (Earth Sciences Lab I)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2301 (Principles of Financial Acct.)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2302 (Principles of Managerial Accounting)	3
GOVT 2306 (Texas Government)	3
ARTS 1301 or DRAM or MUSI 1306	3
BIOL 1308 (Biol for Non-Science Majors)	3
BIOL 1108 (Biol Lab for Non-Science Majors)	1
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Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
ACNT 1304 (Intro to Accounting II)	3
BGMT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1321 or SPCH 1311	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
*Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Business and Society - Capstone)	3
*Language, Philosophy & Culture Core	3
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Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304 (Intro to Accounting II)	3
BMGT 1305 (Communications in Management)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1311 or 1321	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3

HRPO 2301 (Human Resource Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
Capstone Exam	

31

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
Certificate Capstone Exam	

15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302 (Principles of Retailing)	3
MRKG 1311 (Principles of Marketing)	3
MRKG 2333 (Principles of Selling)	3

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Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCI 1301 Introduction to Sociology
SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

AGCR 1303 - Crop Science

Fundamentals of the development, production, and management of field crops. Topics include the classification and distribution of field crops, botany, soils, plant breeding, pest management, and harvesting

Upon completion, students will be able to:

- classification and distribution of field crops, botany, soils, plant breeding, pest management, and harvesting

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

AGMG 1311 - Introduction to Agribusiness

Introduction to agribusiness management, marketing, and sales in the free enterprise system. Topics include economic principles, finance, risk management, record keeping, budgeting, employee/employer responsibilities, communications, human relation skills, and agricultural career opportunities.

Upon completion, students will be able to:

- agribusiness management, marketing, and sales in the free enterprise system

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Technology

ARTC 1325 - Introduction to Computer Graphics

A survey of computer design concepts, terminology, processes, and procedures. Topics include computer graphics hardware, electronic images, electronic publishing, vectorbased graphics, and interactive multimedia. Basics of using graphics application programs. Creating and editing charts, applying attributes and print charts. Special topics include drawing options, adding and creating symbols, using chart templates, and importing data.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ARTV 1351 - Digital Video

Producing and editing video and sound for multimedia or web productions. Emphasizes capture, editing, and outputting of video using a desktop digital video workstation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Arts

Overview

For students interested in pursuing an Art degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

ARTS 1301 - Art Appreciation

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. (R W)

Upon completion, students will be able to:

- Exploration of purposes and processes of architecture, sculpture, painting, and minor arts, with analysis of elements and principles applied to visual expression.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Report Required
-

ARTS 1303 - Art History I

A chronological analysis of the historical and cultural contexts of the visual arts from prehistoric times to the 14th century. (RW)

Upon completion, students will be able to:

- recognize major styles of architecture, painting, and minor arts from prehistoric times to the Renaissance.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Paper Required
-

ARTS 1304 - Art History II

A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day. (RW)

Upon completion, students will be able to:

- To recognize Historical examples of architecture, painting, and minor arts from the Renaissance to modern times.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Paper Required
-

ARTS 1311 - Design I

An introduction to the fundamental terminology, concepts, theory, and application of two-dimensional design.

Upon completion, students will be able to:

- terminology, concepts, theory, and structured application of two-dimensional design including point/line, shape, form, value, texture, color, and space.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

ARTS 1312 - Design II

An introduction to the fundamental terminology, concepts, theory, and application of three-dimensional design.

Upon completion, students will be able to:

- fundamental terminology, concepts, theory, and structured application of three-dimensional design, including materials, techniques; relief, free standing, and linear forms; and the effects of light/color

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

ARTS 1316 - Drawing I

A foundation studio course exploring drawing with emphasis on descriptive, expressive and conceptual approaches. Students will learn to see and interpret a variety of subjects while using diverse materials and techniques.

Course work will facilitate a dialogue in which students will engage in critical analysis and begin to develop their understanding of drawing as a discipline.

Upon completion, students will be able to:

- Understand Descriptive, expressive, and conceptual use of line and associated arts elements through various mediums. Spatial studies include figure-ground relationships, two-dimensional space, and threedimensional illusion, including some perspective. Focus on natural and manmade objects and environments

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

Restrictions:

- Outside Work Required
-

ARTS 1317 - Drawing II

A studio course exploring drawing with continued emphasis on descriptive, expressive and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques.

Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline.

Upon completion, students will be able to:

- understand expressive and conceptual aspects of drawing, including advanced compositional arrangements, a range of wet and dry media, and the development of an individual approach to theme and content.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

Prerequisites:

- [ARTS 1316](#) - Drawing I
-

ARTS 1325 - Art for Non-Art Majors

Drawing for Non-Art Majors. Descriptive, expressive, and conceptual use of line and associated arts elements through various mediums. Spatial studies include figure-ground relationships, twodimensional space, and three-dimensional illusion, including some perspective. Focus on natural and manmade objects and environments. Drawing for non-art majors is offered to students who desire to take a studio art class as an elective, life enrichment, or continuing education course. May not be applied to a major in art. OR Painting for Non-Art Majors: Techniques of acrylic painting, Exploring and dealing with the problems encountered in color theory, pictorial compositions, and imagination. Painting for non-art majors is offered to students who desire to take a studio art class as an elective, life enrichment, or continuing education course.

Upon completion, students will be able to:

- Drawing for Non-Art Majors. Descriptive, expressive, and conceptual use of line and associated arts elements through various mediums. Spatial studies include figure-ground relationships, twodimensional space, and three-dimensional illusion, including some perspective. Focus on natural and manmade objects and environments. Drawing for non-art majors is offered to students who desire to take a studio art class as an elective, life enrichment, or continuing education course.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

Restrictions:

- May not be applied to a major in art. OR Watercolor for Non-Art Majors:
 - May not be applied to a major in art. OR Watercolor for Non-Art Majors: 158 Beginning problems and principles in watercolor painting. Exploration of watercolor techniques and composition and design
 - May not be applied to a major in art.
-

ARTS 2311 - Design III

Elements and principles of art using two- and three dimensional concepts.

Upon completion, students will be able to:

- understand three-dimensional design concepts, media and construction methods.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
-

ARTS 2316 - Painting I

Exploration of ideas using painting media and techniques.

Upon completion, students will be able to:

- understand the problems encountered in color theory, pictorial composition, and imagination

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Outside work required
 - Drawing skills strongly recommended
-

ARTS 2317 - Painting II

Exploration of ideas using painting media and techniques.

Upon completion, students will be able to:

- create original work and execute it.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
 - Drawing skills strongly recommended
-

ARTS 2323 - Life Drawing I

Basic study of the human form.

Upon completion, students will be able to:

- Basic study of the human form

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
-

ARTS 2324 - Life Drawing II

Expansion of ARTS 2323. Drawing as practice integrating visual, physical, intellectual, and intuitive faculties using the human figure as subject. Stresses expressive and conceptual approaches, a wide range of media, and development of an individual and thematic approach to theme and content

Upon completion, students will be able to:

- Stresses expressive and conceptual approaches, a wide range of media, and development of an individual and thematic approach to theme and content

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [ARTS 2323](#) - Life Drawing I
-

ARTS 2333 - Printmaking I: Relief Printing

Exploration of ideas using various printmaking processes.

Upon completion, students will be able to:

- Understand various printmaking processes

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
-

ARTS 2346 - Ceramics I

Exploration of ideas using basic ceramic processes.

Upon completion, students will be able to:

- Utilize of basic materials and techniques, including the building of forms, utilization of bisque form glazing and firing procedures and an introduction to the potter's wheel.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
-

ARTS 2347 - Ceramics II

Exploration of ideas using basic ceramic processes.

Upon completion, students will be able to:

- increase knowledge obtained in arts 2346

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [ARTS 2346](#) - Ceramics I

Restrictions:

- Outside Work Required
-

ARTS 2366 - Watercolor I

Exploration of ideas using water-based painting media and techniques.

Upon completion, students will be able to:

- Understand watercolor techniques and composition and design.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required

ARTS 2367 - Watercolor II

Expansion of ARTS 2366 with emphasis on originality of conception and execution.

Upon completion, students will be able to:

- Expansion of ARTS 2366 with emphasis on originality of conception and execution.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required

Computer Science

Overview

The Computer Science/Computer Information Associate Degree at Grayson College includes a state mandated core of 42 hours and is designed for transfer to four-year institutions. This particular degree plan is a road map for students who wish to major in Computer Science, Computer Information Systems, or Computer Engineering at the university level. All students should routinely consult with an academic advisor at the Grayson Computer Science department and with the university/college of their choice to determine which courses should be taken for its bachelor's degree in their desired major.

AS Degree Requirements

Computer Science/Computer Information Systems

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Subject	Semester Hours
COSC 1336 (Programming Fundamentals I)	3
* HUMA 1301 , PHIL 1301 , 1304 or 2306	3
ENGL 1301 (Composition I)	3
HIST 1301 (United States History I)	3
MATH 1314 (College Algebra)	3
COSC 1437 (Programming Fundamentals II)	4
* ENGL 1302 , 2311 OR SPCH 1321	3
MATH 2312 (Pre-Calculus Math)	3
HIST 1302 (United States History II)	3
* ARTS 1301 , DRAMA 1310 or MUSI 1306	3
COSC 2436	4
MATH 2413 (Calculus I)	3
GOVT 2305 (Federal Government) or GOVT 2306	3
Approved Life and Physical Science	3
Approved Life and Physical Science Lab	1
COSC 2425	4
GOVT 2306 (Texas Government) or GOVT 2305	3
* ECON 2301 (Principles of Macroeconomics) or 2302 (Principles of Microeconomics)	3
*Approved Life & Physical Sciences Core**	3
*Approved Life & Physical Sciences Lab	1

60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

*COSC 1336 should be taken first semester

**Approved Life and Physical Sciences Core: BIOL 1306/1106, BIOL 1307/1107, CHEM 1311/1111, CHEM 1312/1112

PHYS 1301/1101, PHYS 1302/1102, PHYS 2325/2125, PHYS 2326/2126. Choice should be approved by computer science faculty advisor.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

PHYS 1301 College Physics I
PHYS 1302 College Physics II

PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCI 1301 Introductory Sociology
SOCI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

Three hours from any course listed in the core or from the following list:

COSC 1336 Programming Fundamentals I

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

BCIS 1305 - Business Computer Applications

Computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS)** degree and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (U.S. History I)	3
ENGL 1301 (Composition I)	3
MATH 1324 (Math for Business I) or higher	3
MATH 1325 (Math for Business II) or higher	3
SPCH 1321 (Business & Professional Communication)	1
HIST 1302 (U.S. History II)	3
ENGL 1301 (Composition II)	3
*Component Area Option	3
ACCT 2301 (Principles of Financial Acct.)	3
HUMA 1301 (Intro to Humanities I) or Huma 1302 (Intro to Humanities II)	3
GOVT 2305 (Federal Government)	1
GEOL 1301 (Earth Sciences)	1
GEOL 1101 (Earth Sciences Lab I)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2301 (Principles of Financial Acct.)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2302 (Principles of Managerial Accounting)	3
GOVT 2306 (Texas Government)	3
ARTS 1301 or DRAM or MUSI 1306	3
BIOL 1308 (Biol for Non-Science Majors)	3
BIOL 1108 (Biol Lab for Non-Science Majors)	1
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Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3

ITSC 1309 (Integrated Software Applications)	3
ACNT 1304 (Intro to Accounting II)	3
BGMT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1321 or SPCH 1311	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
*Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Business and Society - Capstone)	3
*Language, Philosophy & Culture Core	3
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	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304 (Intro to Accounting II)	3
BMGT 1305 (Communications in Management)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1311 or 1321	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resource Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
Capstone Exam	
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	31

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
Certificate Capstone Exam	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302 (Principles of Retailing)	3
MRKG 1311 (Principles of Marketing)	3
MRKG 2333 (Principles of Selling)	3
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

BCIS 1305 - Business Computer Applications

Computer technology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

Upon completion, students will be able to:

- Computer technology, hardware, software, operating systems, and information systems relating to the business environment

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Biological and Physical Sciences

Overview

The Biological and Physical Sciences major at Grayson College is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

The program offers General Biology 1 & 2, Survey of Human Anatomy & Physiology, Human Anatomy & Physiology 1 & 2, and Microbiology.

AS Degree Requirements

Associate of Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
*Life and Physical Sciences Core	1
Science Lab	3
*Component Area Option	3
*Mathematics Core	3
* HIST 1301 (U.S. Hist. I) or 1302 (U.S. Hist. II)	3
ENGL 1302 (Composition II)	3
*Life and Physical Sciences Core	3
Science Lab	1
* ARTS 1301 , DRAM 1310 or MUSI 1306	3
Component Area Option	3
* HIST 1301 (U.S. Hist. I) or 1302 (U.S. Hist. II)	3
* GOVT 2305 (Federal Govt.) or 2306 (Texas Govt.)	3
*Biological & Physical Science Elective	3
Science Lab	1
*Biological & Physical Science Elective	3
Science Lab	1
*Language, Philosophy & Culture	3
* GOVT 2305 (Federal Govt.) or 2306 (Texas Govt.)	3
*Biological & Physical Science Elective	3
Science Lab	1
*Biological & Physical Science Elective	3
Science Lab	1
*Social & Behavioral Sciences Core	3

Note: All sciences must be science major courses. Students are encouraged to select electives that meet the graduation requirement of the senior institution.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

BIOL 1106 - Biology I (lab)

This laboratory-based course accompanies Biology 1306, Biology I. Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included.

Upon completion, students will be able to:

- fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [BIOL 1306](#) - Biology I

Restrictions:

- College readiness in reading required
-

BIOL 1107 - Biology II (lab)

This laboratory-based course accompanies Biology 1307, Biology II. Laboratory activities will reinforce study of the diversity and classification of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals.

Upon completion, students will be able to:

- reinforce study of the diversity and classification of life, including animals, plants, protists, fungi, and prokaryotes.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [BIOL 1307](#) - Biology II

Restrictions:

- College readiness in reading required
-

BIOL 1108 - Biology for Non-Science Majors Laboratory I (lab)

This laboratory-based course accompanies BIOL 1308, Biology for Non-Science Majors I. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Upon completion, students will be able to:

- reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [BIOL 1308](#) - Biology for Non-Science Majors I

Restrictions:

- College readiness in reading required
-

BIOL 1109 - Biology for Non-Science Majors II (lab)

This laboratory-based course accompanies BIOL 1309, Biology for Non-Science Majors II. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Upon completion, students will be able to:

- reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [BIOL 1309](#) - Biology for Non-Science Majors II

Restrictions:

- College readiness in reading required
-

BIOL 1306 - Biology I

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, ecology, and scientific reasoning are included. Laboratory activities will reinforce fundamental concepts learned in lecture. Prerequisite: College readiness in reading required

Upon completion, students will be able to:

- principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BIOL 1307 - Biology II

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Laboratory activities will reinforce fundamental concepts learned in lecture. Prerequisite: College readiness in reading required.

Upon completion, students will be able to:

- animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BIOL 1308 - Biology for Non-Science Majors I

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Laboratory activities will reinforce biological principles covered in lecture.

Upon completion, students will be able to:

- biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading
-

BIOL 1309 - Biology for Non-Science Majors II

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce the principles covered in the lecture.

Upon completion, students will be able to:

- biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required
-

BIOL 1322 - Nutrition & Diet Therapy I (lecture)

Study of the chemical, physical, and sensory properties of food; nutritional quality; and food use and diet applications. Prevention of illnesses such as cancer, heart disease, osteoporosis, gastrointestinal disorders and obesity discussed. Healthful diet and lifestyle related to food and nutrition controversies are critically evaluated. Prerequisite: College readiness in reading required.

Upon completion, students will be able to:

- Study of the chemical, physical, and sensory properties of food; nutritional quality; and food use and diet applications. Prevention of illnesses such as cancer, heart disease, osteoporosis, gastrointestinal disorders and obesity discussed.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BIOL 2101 - Anatomy & Physiology Laboratory I

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses

Upon completion, students will be able to:

- hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2102 - Anatomy & Physiology Laboratory II

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics)

Upon completion, students will be able to:

- endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics)

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I
- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2120 - Microbiology for Non-Science Majors Laboratory (lab)

This course covers basics of culture and identification of bacteria and microbial ecology. This course is primarily directed at pre-nursing and other preallied health majors and covers basics of microbiology. Emphasis is on medical microbiology, infectious diseases and public health

Upon completion, students will be able to:

- basics of microbiology. Emphasis is on medical microbiology, infectious diseases and public health

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I
- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2121 - Microbiology for Science Majors (lab)

This laboratory-based course accompanies Biology 2321, Microbiology for Science Majors. Laboratory activities will reinforce principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment.

Upon completion, students will be able to:

- Laboratory activities will reinforce principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 1306](#) - Biology I
- [BIOL 1307](#) - Biology II

Restrictions:

- College readiness in reading required
-

BIOL 2301 - Anatomy and Physiology I (Lecture)

Anatomy and Physiology I is the first part of a two course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis

Upon completion, students will be able to:

- structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I

Restrictions:

- College readiness in reading required
-

BIOL 2302 - Anatomy and Physiology II (Lecture)

Anatomy and Physiology II is the second part of a two course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis

Upon completion, students will be able to:

- structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics).

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I
- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2320 - Microbiology for Non-Science Majors (Lecture)

This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health

Upon completion, students will be able to:

- covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I
- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2321 - Microbiology for Science Majors

Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. Laboratory activities will reinforce principles discussed in lecture.

Upon completion, students will be able to:

- metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

Prerequisites:

- [BIOL 1306](#) - Biology I
- [BIOL 1307](#) - Biology II

Restrictions:

- College readiness in reading required
-

BIOL 2404 - Anatomy & Physiology (specialized, single-semester course, lecture & lab)

Study of the structure and function of human anatomy, including neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized.

Upon completion, students will be able to:

- neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 3.0

Restrictions:

- College readiness in reading required
-

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (U.S. History I)	3
ENGL 1301 (Composition I)	3
MATH 1324 (Math for Business I) or higher	3
MATH 1325 (Math for Business II) or higher	3
SPCH 1321 (Business & Professional Communication)	1
HIST 1302 (U.S. History II)	3
ENGL 1301 (Composition II)	3
*Component Area Option	3
ACCT 2301 (Principles of Financial Acct.)	3
HUMA 1301 (Intro to Humanities I) or Huma 1302 (Intro to Humanities II)	3
GOVT 2305 (Federal Government)	1
GEOL 1301 (Earth Sciences)	1
GEOL 1101 (Earth Sciences Lab I)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2301 (Principles of Financial Acct.)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2302 (Principles of Managerial Accounting)	3
GOVT 2306 (Texas Government)	3
ARTS 1301 or DRAM or MUSI 1306	3
BIOL 1308 (Biol for Non-Science Majors)	3
BIOL 1108 (Biol Lab for Non-Science Majors)	1
	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3

BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
ACNT 1304 (Intro to Accounting II)	3
BGMT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1321 or SPCH 1311	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
*Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Business and Society - Capstone)	3
*Language, Philosophy & Culture Core	3
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	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304 (Intro to Accounting II)	3
BMGT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1311 or 1321	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resource Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
Capstone Exam	
<hr/>	
	31

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
Certificate Capstone Exam	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302 (Principles of Retailing)	3
MRKG 1311 (Principles of Marketing)	3
MRKG 2333 (Principles of Selling)	3
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOVI 1301 Introductory Sociology
SOVI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

BMGT 1305 - Communications in Management

Basic theory and processes of communication skills necessary for the management of an organization's workforce.

Upon completion, students will be able to:

- Basic theory and processes of communication skills necessary for the management of an organization's workforce.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 1327 - Principles of Management

Concepts, terminology, principles, theories, and issues in the field of management.

Upon completion, students will be able to:

- Concepts, terminology, principles, theories, and issues in the field of management

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 1341 - Business Ethics

Discussion of ethical issues, the development of a moral frame of reference, and the need for an awareness of social responsibility in management practices and business activities. Includes ethical corporate responsibility.

Upon completion, students will be able to:

- Define business ethics.
- Identify the consequences of unethical business practices.
- Describe reasoning for analyzing ethical dilemmas.
- Describe different ethical views.
- Explain how business, government, and society function interactively.
- Explain corporate social responsibility.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 2309 - Leadership

Concepts of leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify leadership styles

Upon completion, students will be able to:

- Leadership and communication skills needed to motivate and identify leadership styles

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 2370 - Business and Society

Designed to provide students with a Capstone experience associated with the applied science degree in Business and Management. It brings together the various aspects of students' course work from the perspective of business' role in society. Topics include corporate social responsibility, corporate legitimacy and culture, managerial values, business ethics, corporate stakeholders, regulatory and environmental issues, and strategic management.

Upon completion, students will be able to:

- various aspects of students' course work from the perspective of business' role in society. Topics include corporate social responsibility, corporate legitimacy and culture, managerial values, business ethics, corporate stakeholders, regulatory and environmental issues, and strategic management.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Banking

Overview

The Business and Management Department at Grayson College offers two certificates related to Banking: General Banking and Bank Operations. Both are designed to prepare students for employment in the various aspects of the banking industry. The certificates may also be used by people in the banking industry to hone or expand required skills.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

Capstone Experience

Graduation with either the General Banking or Bank Operations Certificates requires successful completion of a Capstone Course.

Certificate Degree Requirements

General Banking Certificate

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BUSG 2309 (Small Business Management)	3
MRKG 1311 (Principles of Marketing)	3
BUSG 1304 (Financial Literacy)	3
INSR 1351 (Essentials of Risk Management)	3
AGMG 1311 (Intro to Agribusiness)	3
BNKG 1303 (Capstone - Principles of Banking Operations)	3
	21

Enroll in BNKG 1303 during the semester you plan to complete the certificate.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Bank Operations Certificate

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BUSG 1304 (Financial Literacy)	3
MRKG 1311 (Principles of Marketing)	3

BNKG 1303 (Capstone - Principles of Banking Operations)	3
INSR 1351 (Essentials of Risk Management)	3
AGMG 1311 (Intro to Agribusiness)	3
ACCT 2302 (Principles of Managerial Acct.)	3
BUSG 2305 (Business Law/Contracts)	3
BMGT 1305 (Communications in Management)	3
MRKG 2333 (Principles of Selling)	3
MRKG 1302 (Principles of Retailing)	3
BNKG 1340 (Capstone - Money and Financial Markets)	3
BUSG 2309 (Small Business Management)	3

39

Enroll in BNKG 1340 during the semester you plan to complete the certificate

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

BNKG 1303 - Principles of Bank Operation

Overview of the fundamental banking functions and the role of regulation in the banking industry. Explanation of financial products and services to various markets.

Upon completion, students will be able to:

- Understand the role of regulation in the banking industry

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BNKG 1340 - Money and Financial Markets

Monetary policy and its related effects on financial intermediaries. Includes financial markets, regulatory functions, and structures. Addresses investment and funds management.

Upon completion, students will be able to:

- financial markets, regulatory functions, and structures. Addresses investment and funds management

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BNKG 1366 - Field Experience – Banking and Financial Support Services

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- Individualized learning plan developed by the employer, college, and student.

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

BNKG 1391 - Special Topics in Banking and Financial Support Services

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

BNKG 1443 - Law and Banking—Applications

An introduction to basic sources of law and banking regulation. Emphasis on the laws relating to contracts, negotiable instruments, secured transactions, and consumer credit.

Upon completion, students will be able to:

- Emphasis on the laws relating to contracts, negotiable instruments, secured transactions, and consumer credit

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (U.S. History I)	3
ENGL 1301 (Composition I)	3
MATH 1324 (Math for Business I) or higher	3
MATH 1325 (Math for Business II) or higher	3
SPCH 1321 (Business & Professional Communication)	1
HIST 1302 (U.S. History II)	3
ENGL 1301 (Composition II)	3
*Component Area Option	3

ACCT 2301 (Principles of Financial Acct.)	3
HUMA 1301 (Intro to Humanities I) or Huma 1302 (Intro to Humanities II)	3
GOVT 2305 (Federal Government)	1
GEOL 1301 (Earth Sciences)	1
GEOL 1101 (Earth Sciences Lab I)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2301 (Principles of Financial Acct.)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2302 (Principles of Managerial Accounting)	3
GOVT 2306 (Texas Government)	3
ARTS 1301 or DRAM or MUSI 1306	3
BIOL 1308 (Biol for Non-Science Majors)	3
BIOL 1108 (Biol Lab for Non-Science Majors)	1
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	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
ACNT 1304 (Intro to Accounting II)	3
BGMT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1321 or SPCH 1311	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
*Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Business and Society - Capstone)	3
*Language, Philosophy & Culture Core	3
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	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304 (Intro to Accounting II)	3
BMGT 1305 (Communications in Management)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1311 or 1321	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resource Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
Capstone Exam	
	31

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
Certificate Capstone Exam	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302 (Principles of Retailing)	3
MRKG 1311 (Principles of Marketing)	3
MRKG 2333 (Principles of Selling)	3
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

BUSG 1302 - E-Business Management

Unique aspects of creating and managing an E-Commerce business; topics address the internet, infrastructure for electronic commerce, markup languages, web-based tools and software, security issues, electronic payment systems, strategies for marketing, sales and purchasing, legal, ethical and tax issues, management functions including how managers plan, exercise leadership, organize, and control the operations.

Upon completion, students will be able to:

- internet, infrastructure for electronic commerce, markup languages, web-based tools and software, security issues, electronic payment systems, strategies for marketing, sales and purchasing, legal, ethical and tax issues, management functions including how managers plan, exercise leadership, organize, and control the operations

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Technology

BUSG 1302 - E Business Management

Unique aspects of creating and managing an E Commerce business; topics address the internet, infrastructure for electronic commerce, markup languages, web based tools and software, security issues, electronic payment systems, strategies for marketing, sales and purchasing, legal, ethical and tax issues, management functions including how managers plan, exercise leadership, organize, and control the operations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (U.S. History I)	3
ENGL 1301 (Composition I)	3
MATH 1324 (Math for Business I) or higher	3
MATH 1325 (Math for Business II) or higher	3
SPCH 1321 (Business & Professional Communication)	1
HIST 1302 (U.S. History II)	3
ENGL 1301 (Composition II)	3
*Component Area Option	3
ACCT 2301 (Principles of Financial Acct.)	3
HUMA 1301 (Intro to Humanities I) or Huma 1302 (Intro to Humanities II)	3

GOVT 2305 (Federal Government)	1
GEOL 1301 (Earth Sciences)	1
GEOL 1101 (Earth Sciences Lab I)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2301 (Principles of Financial Acct.)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2302 (Principles of Managerial Accounting)	3
GOVT 2306 (Texas Government)	3
ARTS 1301 or DRAM or MUSI 1306	3
BIOL 1308 (Biol for Non-Science Majors)	3
BIOL 1108 (Biol Lab for Non-Science Majors)	1
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	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
ACNT 1304 (Intro to Accounting II)	3
BGMT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1321 or SPCH 1311	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
*Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Business and Society - Capstone)	3
*Language, Philosophy & Culture Core	3
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	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304 (Intro to Accounting II)	3
BMGT 1305 (Communications in Management)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1311 or 1321	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resource Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
Capstone Exam	
	31

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
Certificate Capstone Exam	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302 (Principles of Retailing)	3
MRKG 1311 (Principles of Marketing)	3
MRKG 2333 (Principles of Selling)	3
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in

their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I

PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

BUSG 1303 - Principles of Finance

Financial dynamics of a business. Includes monetary and credit theory, cash inventory, capital management, and consumer and government finance. Emphasizes the time value of money.

Upon completion, students will be able to:

- Financial dynamics of a business

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BUSG 1304 - Financial Literacy

A study of the financial principles when managing financial affairs. Includes topics such as budgeting, retirement, property ownership, savings and investment planning.

Upon completion, students will be able to:

- budgeting, retirement, property ownership, savings and investment planning.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

BUSG 2305 - Business Law/Contracts

Principles of law which form the legal framework for business activity including applicable statutes, contracts, and agency.

Upon completion, students will be able to:

- Principles of law which form the legal framework for business activity including applicable statutes, contracts, and agency.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BUSG 2309 - Small Business Management

A course on how to start and operate a small business. Topics include facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues.

Upon completion, students will be able to:

- facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BUSI 1301 - Business Principles

Introduction to the role of business in modern society. Includes overview of business operations, analysis of the specialized fields within the business organization, and development of a business vocabulary.

Upon completion, students will be able to:

- overview of business operations, analysis of the specialized fields within the business organization, and development of a business vocabulary.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BUSI 1311 - Salesmanship

Principles of personal salesmanship including methods and tasks applicable to a wide variety of industries and commercial settings.

Upon completion, students will be able to:

- Understand methods and tasks applicable to a wide variety of industries and commercial settings.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Child Development

Overview

Grayson College offers a Child Development **Associate of Applied Science degree, certificates, and marketable skills awards**. The Child Development AAS degree program is also available in an online format.

This 60-hour degree explores child growth and development and how to interact and provides the strongest education and foundations for all children birth through adolescence with a focus on birth through age eight. This degree has you in the early childhood classrooms from the first semester working and learning. This degree allows

for many careers in a variety of fields like child care, physical therapy, occupational therapy, Early Childhood interaction and Head Start.

Course Requirements

The Associate of Applied Science Degree, certificate and marketable skills requires that you have a High School Diploma or equivalent. The Associate of Applied Science requires that you have met TSI requirements.

Capstone Experience

To earn a degree or certificate in this program, students must successfully complete a comprehensive exit exam prior to graduation.

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
CDED 1319 (Child Guidance)	3
CDEC 1323 (Observation & Assessment)	3
TECA 1354 (Child Growth & Development)	3
CDEC 1359 (Children with Special Needs)	3
* EDUC/PSYC 1300 (Learning Frameworks)	3
TECA 1303 (Families, Schools & Communities)	3
TECA 1311 (Educating Young Children)	3
* ENGL 1301 (Comp I) or SPCH 1311 (Intro to Spch Comm.)	3
* BIOL 1308 , GEOL 1301 , MATH 1332 or MATH 1342	3
CDEC 1313 Curriculum Resources for Early Childhood Programs)	3
CDEC 2326 (Administration of Programs for Children I)	3
TECA 1318 (Wellness of the Young Child)	3
*Approved Child Development Elective ¹	3
*Creative Arts/Language, Philosophy, and Culture Core	3
CDEC 2328 (Administration of Program for Children II)	3
CDEC 1356 (Emergent Literacy for Early Childhood)	3
CDEC 2336 (Approved Child Development Elective)	3
*Approved Elective ²	3
*Approved Elective ²	3
CDEC 2380 Cooperative Care	3

All students must meet with an advisor to determine which courses will transfer to the 4-year school of their choice.

¹Approved Child Development Electives: CDEC 1317, 1321, 1330, 1335, 1339, 1343, 1358, 2304, 2307, 2315, 2322, 2324, 2340, 2341 or Southeastern Oklahoma students see note below.

²Students transferring to Southeastern Oklahoma must take ENGL 1301, 1302 and SOC 1301 as approved electives.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Administrator's Certificate

Subject	Semester Hours
CDEC 2326 (Approved Child Development Elective)	3
CDEC 2328 (Admin of Program for Children II)	3
CDEC 1319 (Child Guidance)	3
CDEC 1323 (Observation & Assessment)	3
TECA 1354 (Child Growth & Development)	3
TECA 1318 (Wellness of the Young Child)	3
TECA 1303 (Families, Schools & Community)	3
CDEC 1313 (Curriculum Resources for Early Childhood Programs)	3
CDEC 2328 (Admin. of Program of Children II)	3

One-Year Certificate

Subject	Semester Hours
CDEC 1319 (Child Guidance)	3
CDEC 1323 (Observation & Assessment)	3
TECA 1354 (Child Growth & Development)	3
CDEC 1359 (Children with Special Needs)	3
TECA 1318 (Wellness of the Young Child)	3
TECA 1303 (Families, Schools & Community)	3
TECA 1311 (Educating Young Children)	3
CDEC 1356 (Emergent Literacy for Early Childhood)	3
CDEC 1359 (Children with Special Needs)	3
CDEC 1313 (Curriculum Resources for Early Childhood Programs Capstone)	3

Child Development Marketable Skills Award

Subject	Semester Hours
TECA 1354 (Child Growth & Development)	3
CDEC 1359 (Children with Special Needs)	3
TECA 1319	3
	9

This award does not lead to national CDA credential.

Child Development Associate Training Marketable Skills Award

Subject	Semester Hours
CDEC 1317 (Child Development Associate Training I)	3
CDEC 2322 (Child Development Associate Training II)	3
CDEC 2324 (Child Development Associate Training III)	3
	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CDEC 1313 - Curriculum Resources for Early Childhood Programs

A study of the fundamentals of developmentally appropriate curriculum design and implementation in early care and education programs for children birth through age eight. Field experience required.

Upon completion, students will be able to:

- Fundamentals of curriculum design and implementation in developmentally appropriate programs for children

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required.
-

CDEC 1317 - Child Development Associate Training I

Based on the requirements for the Child Development Associate credential (CDA). Topics include CDA overview, observation skills, and child growth and development. The four functional areas of study are creative, cognitive, physical, and communication.

Upon completion, students will be able to:

- four functional areas of study are creative, cognitive, physical, and communication.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1319 - Child Guidance

An exploration of guidance strategies for promoting prosocial behaviors with individual and groups of children. Emphasis on positive guidance principles and techniques, family involvement, and cultural influences. Field experience required

Upon completion, students will be able to:

- Practical application through direct participation with children.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field observation required
-

CDEC 1321 - The Infant and Toddler

A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality routines, appropriate environments, materials and activities, and teaching/guidance techniques.

Upon completion, students will be able to:

- development, quality routines, appropriate environments, materials and activities, and teaching/guidance techniques.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1323 - Observation and Assessment

A study of observation skills, assessment techniques, and documentation of children's development.

Upon completion, students will be able to:

- observation skills, assessment techniques, and documentation of children's development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field observation required
-

CDEC 1330 - Growth and Development: 6-14 Years

Principles of child growth and development from six through thirteen years. Focus on physical, cognitive, social, and emotional domains of development.

Upon completion, students will be able to:

- Principles of child growth and development from six through thirteen years. Focus on physical, cognitive, social, and emotional domains of development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1335 - Early Childhood Development: 3-5 Years

Principles of normal growth and development from three years through five years. Emphasizes physical, emotional, and social development.

Upon completion, students will be able to:

- Principles of normal growth and development from three years through five years. Emphasizes physical, emotional, and social development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CDEC 1339 - Early Childhood Development: 0-3 Years

Principles of normal growth and development from conception through three years of age. Emphasizes physical, intellectual, and social/emotional development.

Upon completion, students will be able to:

- Principles of normal growth and development from conception through three years of age. Emphasizes physical, intellectual, and social/emotional development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1343 - Independent Study in Child Development

Study of an approved career topic. Research, presentation of findings, and practical applications are emphasized as they relate to the selected topic.

Upon completion, students will be able to:

- Research, presentation of findings, and practical applications are emphasized as they relate to the selected topic

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1356 - Emergent Literacy for Early Childhood

An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum

Upon completion, students will be able to:

- principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required
-

CDEC 1358 - Creative Arts for Early Childhood

An exploration of principles, methods, and materials for teaching children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking.

Upon completion, students will be able to:

- principles, methods, and materials for teaching children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1359 - Children with Special Needs

A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role, and legislative issues.

Upon completion, students will be able to:

- intervention strategies, available resources, referral processes, the advocacy role, and legislative issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2304 - Child Abuse and Neglect

Methods used in the identification of physical, emotional, and sexual abuse and neglect with an emphasis on developing skills for working with children and families. Includes methods of referral to public and private agencies that deal with investigation and treatment.

Upon completion, students will be able to:

- Identification of physical, emotional, and sexual abuse and neglect with an emphasis on developing skills for working with children and families.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2307 - Math and Science for Early Childhood

An exploration of principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play.

Upon completion, students will be able to:

- principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2315 - Diverse Cultural/Multilingual Education

An overview of multicultural education to include relationship with the family and community to develop awareness and sensitivity to diversity related to individual needs of children.

Upon completion, students will be able to:

- multicultural education to include relationship with the family and community to develop awareness and sensitivity to diversity related to individual needs of children.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2322 - Child Development Associate Training II

A continuation of the study of the requirements for the Child Development Associate National Credential (CDA). The six functional areas of study include safe, healthy learning environment, self, social and guidance..

Upon completion, students will be able to:

- requirements for the Child Development Associate National Credential (CDA).

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2324 - Child Development Associate Training III

Continuation of the requirements for the Child Development Associate National Credential (CDA). Three of the 13 functional areas of study include family, program management and professionalism.

Upon completion, students will be able to:

- Requirements for the Child Development Associate National Credential (CDA).

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2326 - Administration of Programs for Children I

Application of management procedures for early child care education programs. Includes planning, operating, supervising, and evaluating programs. Topics cover philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication.

Upon completion, students will be able to:

- Application of management procedures for early child care education programs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2328 - Administration of Program for Children II

An in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management, advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs.

Upon completion, students will be able to:

- skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management, advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required.
-

CDEC 2336 - Approved Child Development Elective

An advanced study of the skills and techniques in administering early care and education programs.

Upon completion, students will be able to:

- An advanced study of the skills and techniques in administering early care and education programs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2340 - Instructional Techniques for Children with Special Needs

Exploration of development and implementation of curriculum for children with special needs.

Upon completion, students will be able to:

- Exploration of development and implementation of curriculum for children with special needs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2341 - The School Age Child

A study of appropriate programs for the school age child (5 to 13 years), including an overview of development, appropriate environments, materials, and activities and teaching/guidance techniques.

Upon completion, students will be able to:

- appropriate programs for the school age child (5 to 13 years)

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CDEC 2380 - Cooperative Education Child-Care Provider Assistant

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience

Upon completion, students will be able to:

- Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience

Grade Basis: L
Credit hours: 3.0

Restrictions:

- Field experience required.
-

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	3
HAMG 1340 (Hospitality Legal Issues)	3
HAMG 1221 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
*Social/Behavioral Science Core	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 1213 (Front Office Procedures)	3
*HAMG, PSTR, CHEF or FDST Elective	
* SPCH 1311 or 1321	3
CHEF 2231 (Advanced Food Preparation)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
*Lang, Phil, Culture/Creative ARTS CORE	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	3
CHEF 1314 (A La Carte Cooking)	3
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	2
CHEF 1301 (Basic Food Preparation)	3
HAMG 1221 (Introduction to Hospitality Industry)	2
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3

PSTR 1301 (Fundamentals of Baking)	3
HAMG 1319 (Computers in Hospitality)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1345 (International Cuisine)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 2331 (Advanced Pastry Shop)	3
HAMG 1324 (Hospitality Human Resources Management)	3
CHEF 1310 (Garde Manger)	3
RSTO 1304 (Dining Room Service)	3
CHEF 1302 (Principles of Healthy Cuisine)	3
CHEF 1314 (A La Carte Cooking)	3
*Social/Behavioral Science Core	3
CHEF 1164 (Practicum or Field Experience)	1
IFWA 1210 (Nutrition and Menu Planning)	2

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
HAMG 2301 (Principles of Food and Beverage Operations)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
HAMG 2332 (Hospitality Financial Management)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
HAMG 1213 (Front Office Procedures)	2
HAMG 2167 (Practicum or Field Experience)	1
HAMG 2305 (Hospitality Management and Leadership)	3

Culinary Arts Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1345 (International Cuisine)	3
CHEF 2231 (Advanced Food Preparation)	2

CHEF 1302	3
HAMG 1319 (Computers in Hospitality)	3
* IFWA 1210 or BIOL 1322	2
CHEF 1314 (A La Carte Cooking)	3
RSTO 1304 (Dining Room Service)	3
PSTR 2331 (Advanced Pastry Shop)	3
CHEF 1310 (Garde Manger)	3
CHEF 1164 (Practicum or Field Experience)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Basic Culinary Skills Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
PSTR 1301 (Fundamentals of Baking)	3
* EDU 1300/PSYC 1300	3
CHEF 1345 (International Cuisine)	3
CHEF 1310 (Garde Manger)	3
CHEF 2231 (Advanced Food Preparation)	2
RSTO 1304 (Dining Room Service)	3
POFT 1120 (Job Search Skills)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Catering and Event Planning Certificate

Subject	Semester Hours
TRVM 2333 (Applied Convention)	3
CHEF 1205* (Sanitation and Safety)	2
TRVM 1327 (Special Events Design)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 2307 (Catering)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1310 (Garde Manger)	3
FDST 2433 (Wine Types and Sensory Eval)	4
POFT 1120 (Job Search Skills)	1

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CHEF 1164 - Practicum (or Field Experience)

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 10.0

CHEF 1205 - Sanitation and Safety

Study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

CHEF 1301 - Basic Food Preparation

A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. Professional chef uniform and kitchen tools required. Lab included. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

CHEF 1302 - Principles of Healthy Cuisine

Introduction to the principles of planning, preparation, and presentation of nutritionally balanced meals. Alternative methods and ingredients will be used to achieve a healthier cooking style.

Upon completion, students will be able to:

- Modify recipes and substitute ingredients to reduce calories, sugar, fat, and sodium.
- Create recipes using healthy techniques.
- Identify common food allergies and special dietary needs.
- Relate nutritional guidelines to diets and recipe production.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

CHEF 1310 - Garde Manger

A study of specialty foods and garnishes. Emphasis on design, techniques, and display of fine foods. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 1314 - A La Carte Cooking

A course in a la carte or "cooking to order" concepts. Topics include menu and recipe interpretation and conversion, organization of work station, employment of appropriate cooking methods, plating, and saucing principles. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 1345 - International Cuisine

The study of classical cooking skills associated with the preparation and service of international and ethnic cuisine. Topics include similarities between food production systems used in the United States and other regions of the world. Professional chef uniform and kitchen tools required. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 2231 - Advanced Food Preparation

Advanced concepts of food preparation and presentation techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

CHEF 2302 - Saucier

Instruction in the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments, and the pairing of sauces with a variety of foods. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

Chemistry

Overview

For students planning to pursue a Chemistry major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

CHEM 1111 - General Chemistry I (lab)

Basic laboratory experiments supporting theoretical principles presented in CHEM 1311; introduction of the scientific method, experimental design, data collection and analysis, and 163 preparation of laboratory reports.

Upon completion, students will be able to:

- scientific method, experimental design, data collection and analysis, and 163 preparation of laboratory reports.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I
- [MATH 1314](#) - College Algebra

Restrictions:

- High school chemistry is strongly recommended.
-

CHEM 1112 - General Chemistry II (lab)

Basic laboratory experiments supporting theoretical principles presented in CHEM 1312; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports.

Upon completion, students will be able to:

- introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I
- [CHEM 1312](#) - General Chemistry II

Restrictions:

- College readiness in reading and math required.
-

CHEM 1311 - General Chemistry I

Lecture: Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry Lab: Basic laboratory experiments supporting theoretical principles presented in lecture; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

Upon completion, students will be able to:

- Basic laboratory experiments supporting theoretical principles presented in lecture; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- High school chemistry is strongly recommended.
-

CHEM 1312 - General Chemistry II

Lecture: Chemical equilibrium; phase diagrams and spectrometry; acidbase concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. Lab: Basic laboratory experiments supporting theoretical principles presented in Lecture; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports

Upon completion, students will be able to:

- organic chemistry and descriptive inorganic chemistry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I

Restrictions:

- College readiness in reading and math required
-

CHEM 1406 - Introductory Chemistry I (lecture + lab, allied health emphasis)

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. Organic and biological chemistry are emphasized. This course provides the basic chemical background for understanding metabolism and other biological processes which occur in living organisms. Not to be taken by science majors.

Upon completion, students will be able to:

- basic chemical background for understanding metabolism and other biological processes which occur in living organisms

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- College readiness in reading required.
-

CHEM 2123 - Organic Chemistry I (lab, 1 SCH version)

This laboratory-based course accompanies CHEM 2323, Organic Chemistry I. Laboratory activities will reinforce fundamental principles of organic chemistry, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. Methods for the purification and identification of organic compounds will be examined.

Upon completion, students will be able to:

- fundamental principles of organic chemistry, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1312](#) - General Chemistry II

Restrictions:

- College readiness in reading is required
-

CHEM 2125 - Organic Chemistry II (lab, 1 SCH version)

This laboratory-based course accompanies CHEM 2325, Organic Chemistry II. Laboratory activities reinforce advanced principles of organic chemistry, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules.

Upon completion, students will be able to:

- principles of organic chemistry, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 2325](#) - Organic Chemistry II

Restrictions:

- College readiness in reading is required
-

CHEM 2323 - Organic Chemistry I

Lecture: Fundamental principles of organic chemistry will be studied, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis

is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. This course is intended for students in science or pre- professional programs. Lab: Laboratory activities will reinforce fundamental principles of organic chemistry, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives.

Upon completion, students will be able to:

- Understand the fundamental principles of organic chemistry

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 1312](#) - General Chemistry II

Restrictions:

- College readiness in reading is required
-

CHEM 2325 - Organic Chemistry II

Lecture: Advanced principles of organic chemistry will be studied, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. This course is intended for students in science or pre-professional programs. Lab: Laboratory activities reinforce advanced principles of organic chemistry, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives

Upon completion, students will be able to:

- Understand the advanced principles of organic chemistry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 2323](#) - Organic Chemistry I

Restrictions:

- College readiness in reading is required
-

Criminal Justice Technology

Overview

Grayson College offers an Associate of Applied Science degree in Criminal Justice and a Certificate in Law Enforcement. A separate offering is available at the Texoma Regional Police Academy, which includes classroom, hands-on activities and physical training to produce graduates ready to enter the workforce. Police Academy graduates earn a Certificate of Completion.

The Criminal Justice AAS degree program is also available in an online format.

Courses that start with CJSA may also be taken for non-credit through the GC Continuing Education division.

Course Requirements

The Associate of Applied Science Degree requires that you have a High School Diploma or an equivalent and that you have satisfied TSI requirements.

Capstone Experience

Graduation with an Associate of Applied Science Degree in Criminal Justice requires successful completion of a Comprehensive Exit Exam.

Local Employers

Grayson County Sheriffs Department, Sherman Police Department, Denison Police Department, Pottsboro Police Department, Howe Police Department

AAS Degree Requirements

Associate of Applied Science - Criminal Justice Technology

Subject	Semester Hours
* CRIJ 1301 / CJSA 1322 (Intro to Criminal Just.)	3
ENGL 1301 (Composition I)	3
* CRIJ 1306 / CJSA 1313 (Court Systems Practices)	3
* CRIJ 1310 / CJSA 1327 (Fundamentals of Criminal Law)	3
HIST 1301 (United States History I)	3
* CRIJ 1307 / CJSA 1312 (Crime in America)	3
ENGL 2311 (Technical and Business Writing)	3
* CRIJ 2314 / CJSA 1342 (Criminal Investigation)	3
* SPCH 1311 (Intro to Spch Comm.) / 1321 Business and Professional Comm.	3
HIST 1302 (United States History II)	3
* CRIJ 2301 / CJCR 2324 (Community Resources in Corrections)	3
GOVT 2305 (Federal Government)	3
* CRIJ 2313 / CJCR 1307 (Correctional Systems and Practices)	3
* CRIJ 2323 / CJSA 2300 (Legal Aspects of Law Enforcement)	3
SOCJ 1301 (Introduction to Sociology)	3
CJSA 2334 (Contemporary Issues in Criminal Justice)	3
* MATH 1332 (Contemporary Mathematics)	3
CRIJ 2328 / CJSA 1359 (Police Systems and Practices)	3
* HUMA 1301 (Introduction to the Humanities I)	3
*Elective	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Law Enforcement Certificate

Subject	Semester Hours
*Four CRIJ/CJSA courses	12
CJLE 1506 (Basic Peace Officer I)	5
CJLE 1512 (Basic Peace Officer II)	5
CJLE 1518 (Basic Peace Officer III)	5
CJLE 1524 (Basic Peace Officer IV)	5
CJLE 1329 (Basic Peace Officer V)	3
CJLE 1211 (Basic Firearms)	2

Capstone Requirement: All students must pass the Texas Commission on Law Enforcement (TCOLE) Basic Peace Officer Exam.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Students who desire Associate of Applied Science Degree, see degree requirements.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CJCR 1307 - Correctional System

Corrections in the criminal justice system; organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues. End-Of-Course Outcomes: Describe historical trends; identify the organization and role of corrections; distinguish operations and procedure within correctional programs; and evaluate rehabilitation, alternatives to institutionalization, and future issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJCR 2324 - Community Resources in Corrections

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment. End-Of-Course Outcomes: Identify alternatives to incarceration; compare and contrast the strengths and weaknesses inherent in contemporary models of intermediate sanctions; and appraise future trends in community treatment options.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Police Academy

Overview

The Texoma Regional Police Academy (TRPA) at Grayson College offers a 22 week (864 hours) daytime program designed to prepare students for a very exciting, challenging, and rewarding career in law enforcement. TRPA also offers a 44 week part time evening academy class for those who cannot afford to leave their daytime jobs. Students are awarded 25 credit hours of college credit for the completion of the Police Academy program at Grayson College. The police academy is accredited by The Texas Commission on Law Enforcement.TCOLE.

Throughout the program, students will participate in classroom instruction and live training exercises. Individuals completing the day or night Academy and passing the TCOLE state-licensing exam are certified to seek appointment in state and local law enforcement agencies, throughout Texas, as a full time peace officer or reserve officer.

To be admitted to TRPA students must meet the following minimum entrance requirements:

- At least 21 years of age at the time of graduation from the course.
- Be of good moral character.
- Provide a completed application form to the Texoma Regional Police Academy and be interviewed personally.
- Comply with all TCOLE Minimum Standards for Licensing. (Go to <http://www.tcole.texas.gov/>. Help and Resources; Rules and Policy; Commission Rules; Par 7 Chapter 215; 215.15.
- Submit to electronic fingerprinting by Murphy Trust USA, and cleared by TCOLE.
- Take a psychological exam with a reading test: score a 12th grade reading level.
- Enroll in Grayson College.

Certificate Degree Requirements

Texoma Regional Police Academy Certificate

Subject	Semester Hours
CJLE 1506 (Basic Peace Officer I)	5
CJLE 1512 (Basic Peace Officer II)	5
CJLE 1518 (Basic Peace Officer III)	5
CJLE 1524 (Basic Peace Officer IV)	5
CJLE 1329 (Basic Peace Officer V)	3
CJLE 1211 (Basic Firearms)	2
	25

CJLE 1211 - Basic Firearms

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, IV and V. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

CJLE 1329 - Basic Peace Officer V

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, IV, and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 8.0

CJLE 1506 - Basic Peace Officer I

Supplemental course taken in conjunction with Basic Peace Officer Courses II, III, IV, V and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: LP
Credit hours: 5.0
Lecture hours: 2.0
Lab hours: 9.0

CJLE 1512 - Basic Peace Officer II

Supplemental course taken in conjunction with Basic Peace Officer Courses I, III, IV, V and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: LP
Credit hours: 5.0
Lecture hours: 4.0
Lab hours: 3.0

CJLE 1518 - Basic Peace Officer III.

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, IV, V and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: LP
Credit hours: 5.0
Lecture hours: 2.0
Lab hours: 9.0

CJLE 1524 - Basic Peace Officer IV

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, V and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: LP
Credit hours: 5.0
Lecture hours: 2.0
Lab hours: 9.0

Criminal Justice Technology

Overview

Grayson College offers an Associate of Applied Science degree in Criminal Justice and a Certificate in Law Enforcement. A separate offering is available at the Texoma Regional Police Academy, which includes classroom, hands-on activities and physical training to produce graduates ready to enter the workforce. Police Academy graduates earn a Certificate of Completion.

The Criminal Justice AAS degree program is also available in an online format.

Courses that start with CJSA may also be taken for non-credit through the GC Continuing Education division.

Course Requirements

The Associate of Applied Science Degree requires that you have a High School Diploma or an equivalent and that you have satisfied TSI requirements.

Capstone Experience

Graduation with an Associate of Applied Science Degree in Criminal Justice requires successful completion of a Comprehensive Exit Exam.

Local Employers

Grayson County Sheriffs Department, Sherman Police Department, Denison Police Department, Pottsboro Police Department, Howe Police Department

AAS Degree Requirements

Associate of Applied Science - Criminal Justice Technology

Subject	Semester Hours
* CRIJ 1301 / CJSA 1322 (Intro to Criminal Just.)	3
ENGL 1301 (Composition I)	3
* CRIJ 1306 / CJSA 1313 (Court Systems Practices)	3
* CRIJ 1310 / CJSA 1327 (Fundamentals of Criminal Law)	3
HIST 1301 (United States History I)	3
* CRIJ 1307 / CJSA 1312 (Crime in America)	3
ENGL 2311 (Technical and Business Writing)	3
* CRIJ 2314 / CJSA 1342 (Criminal Investigation)	3
* SPCH 1311 (Intro to Spch Comm.) / 1321 Business and Professional Comm.	3
HIST 1302 (United States History II)	3
* CRIJ 2301 / CJCR 2324 (Community Resources in Corrections)	3
GOVT 2305 (Federal Government)	3
* CRIJ 2313 / CJCR 1307 (Correctional Systems and Practices)	3
* CRIJ 2323 / CJSA 2300 (Legal Aspects of Law Enforcement)	3
SOC1 1301 (Introduction to Sociology)	3
CJSA 2334 (Contemporary Issues in Criminal Justice)	3
* MATH 1332 (Contemporary Mathematics)	3
CRIJ 2328 / CJSA 1359 (Police Systems and Practices)	3
* HUMA 1301 (Introduction to the Humanities I)	3
*Elective	3
	<hr/> 60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Law Enforcement Certificate

Subject	Semester Hours
*Four CRIJ/CJSA courses	12
CJLE 1506 (Basic Peace Officer I)	5
CJLE 1512 (Basic Peace Officer II)	5
CJLE 1518 (Basic Peace Officer III)	5
CJLE 1524 (Basic Peace Officer IV)	5
CJLE 1329 (Basic Peace Officer V)	3
CJLE 1211 (Basic Firearms)	2
	37

Capstone Requirement: All students must pass the Texas Commission on Law Enforcement (TCOLE) Basic Peace Officer Exam.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Students who desire Associate of Applied Science Degree, see degree requirements.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CJSA 1308 - Criminalistics I

Introduction to the field of criminalistics. Topics include the application of scientific and technical methods in the investigation of crime including location, identification, and handling of evidence for scientific analysis.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1312 - Crime in America

American crime problems in historical perspective; social and public policy factors affecting crime; impact and crime trends; social characteristics of specific crime; prevention of crime. End-of-Course Outcomes: Explain the psychological, social, and economic impact of crime in society; and identify characteristics and prevention of major crimes. Cross Reference: This course is parallel to the Academic Course Guide Manual (ACGM) course, CRIJ 1307.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1313 - Court Systems and Practices

The judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence, sentencing. End-of-Course Outcomes: Describe the American judiciary system and its structure; identify the roles of judicial officers; identify the trial processes from pretrial to sentencing; and interpret the role of evidence.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1322 - Introduction to Criminal Justice

History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement; prosecution and defense; trial process; corrections. End-of-Course Outcomes: Describe and explain the history, philosophy and ethical considerations of criminal justice; define the nature and impact of crime on society and how it is integrated in to the criminal justice system; distinguish between the civil and criminal courts; and interpret the relationship between the components of the criminal justice system.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1327 - Fundamentals of Criminal Law

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility. End-of-Course Outcomes: Explain the historical and philosophical development of the nature of criminal law; describe definitions and concepts of criminal law, classifications of crimes, the elements of offenses and penalties using Texas statutes as illustrations; and discuss criminal responsibilities as they apply to the criminal statutes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1342 - Criminal Investigation

Investigative theory; collection and preservation of evidence; source of information; interview and interrogation; uses of forensic sciences; case and trial preparation. End-Of-Course Outcomes: Define the goals and objectives of criminal investigations; illustrate the use of forensic science for various statutory offenses; and organize the

criminal case including field notes, reports, crime scene activities, and mandatory documentation of statutory warning. Licensing/Certification Agency: Texas Commission of Law Enforcement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1359 - Police Systems and Practices

The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues. End-Of-Course Outcomes: Explain the application of ethics, discretion, and sensitivity to the police profession; and describe the organization of law enforcement systems and its relationship to current and future issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1393 - Special Topics in Criminal Justice

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be multiple times to improve student proficiency

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2300 - Legal Aspects of law Enforcement

Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability. End-Of-Course Outcomes: Define police authority, explain the responsibilities and constitutional restraints as enumerated in the Texas Constitution, United States Constitution, and Bill of Rights. Outline the law of arrest and search and seizure developed through court decisions and describe the criminal and civil liability that result from improper acts and/or the failure to act.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2323 - Criminalistics II

Theory and practice of crime scene investigation. Topics include report writing, blood and other body fluids, document examination, etchings, casts and molds, glass fractures, use of microscope, and firearms identification.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2334 - Contemporary Issues in Criminal Justice

A series of lectures and class participation exercises presenting selected topics currently confronting criminal justice personnel and the public they serve.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2338 - Internship in Criminal Justice

An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a criminal justice agency. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience. This course may be repeated if topics and learning outcomes vary

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Restrictions:

- Instructor permission required to enroll
 - 144 Lab hours required
-

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission)	1
ELTN 1343 (Electrical Troubleshooting)	3
ENGL 1301 (Comp I)	3
ELPT 1341 (Motor Control)	3
ELPT 2343 (Electrical Systems Design)	3
ELPT 1291	3
ELPT 1345	2
ELPT 2319 Programmable Logic Controllers)	3
ITSC 1309 (Integrated Software Apps)	3
MATH 1332 (Contemporary Mathematics)	3
ELPT 2165 (Practicum-Electrical and Power Transmission)	1
*Social & Behavioral Science Core	3
*Lang, Phil, Culture/Creative Arts Core	3
SPCH 1311 (Intro to Spch Comm)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Certificate – Residential Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2164 (Practicum Electrical and Power Transmission)	2
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2337	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3

Certificate – Commercial Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337	3

ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission I)	1
ELTN 1343 (Electrical Troubleshooting)	3
ELPT 2343 (Electrical System Design)	3
ELPT 1341 (Motor Control)	3
ELPT 1345	3
ELPT 1357 (Industrial Wiring)	3
ELPT 2319 (Programmable Logic Controllers I)	3
ELPT 2165 (Practicum-Electrical and Power Transmission II)	1

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CNBT 1300 - Residential and Light Commercial Blueprint Reading

Introductory blueprint reading for residential and light commercial construction. Scale prints with architectural and engineering scales; identify construction blueprint symbols and abbreviations; interpret a set of construction contract documents; and correlate elevations, sections, details, plan views, schedules, and general notes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Computer Science

Overview

The Computer Science/Computer Information Associate Degree at Grayson College includes a state mandated core of 42 hours and is designed for transfer to four-year institutions. This particular degree plan is a road map for students who wish to major in Computer Science, Computer Information Systems, or Computer Engineering at the university level. All students should routinely consult with an academic advisor at the Grayson Computer Science department and with the university/college of their choice to determine which courses should be taken for its bachelor's degree in their desired major.

AS Degree Requirements

Computer Science/Computer Information Systems

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Subject	Semester Hours
COSC 1336 (Programming Fundamentals I)	3
* HUMA 1301 , PHIL 1301 , 1304 or 2306	3
ENGL 1301 (Composition I)	3
HIST 1301 (United States History I)	3
MATH 1314 (College Algebra)	3
COSC 1437 (Programming Fundamentals II)	4
* ENGL 1302 , 2311 OR SPCH 1321	3
MATH 2312 (Pre-Calculus Math)	3
HIST 1302 (United States History II)	3
* ARTS 1301 , DRAMA 1310 or MUSI 1306	3
COSC 2436	4
MATH 2413 (Calculus I)	3
GOVT 2305 (Federal Government) or GOVT 2306	3
Approved Life and Physical Science	3
Approved Life and Physical Science Lab	1
COSC 2425	4
GOVT 2306 (Texas Government) or GOVT 2305	3
* ECON 2301 (Principles of Macroeconomics) or 2302 (Principles of Microeconomics)	3
*Approved Life & Physical Sciences Core**	3
*Approved Life & Physical Sciences Lab	1
60	

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

*COSC 1336 should be taken first semester

**Approved Life and Physical Sciences Core: BIOL 1306/1106, BIOL 1307/1107, CHEM 1311/1111, CHEM 1312/1112

PHYS 1301/1101, PHYS 1302/1102, PHYS 2325/2125, PHYS 2326/2126. Choice should be approved by computer science faculty advisor.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II

PHYS 1301 College Physics I
 PHYS 1302 College Physics II

PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
 ENGL 2323 British Literature II
 ENGL 2327 American Literature I

ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication

Component Area Option (CAO 1 and CAO 2) (6 hours)

Three hours from any course listed in the core or from the following list:

COSC 1336 Programming Fundamentals I

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

COSC 1301 - Introduction to Computer Science

Overview of computer systems-hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases. Current issues such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

COSC 1330 - Computer Programming

Computer programming in various programming languages. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [COSC 1336](#) - Programming Fundamentals I
-

COSC 1336 - Programming Fundamentals I

Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. (RM)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

COSC 1437 - Programming Fundamentals II

Review of control structures and data types. Applies the object oriented programming paradigm, focusing on the definitions and use of classes along with the fundamentals of object oriented design. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [COSC 1336](#) - Programming Fundamentals I
-

COSC 2330 - Advanced Structured Languages

Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [COSC 1336](#) - Programming Fundamentals I
-

COSC 2425 - Computer Organization and Machine Language

Basic computer organization; machine cycle, digital representation of data and instruction; assembly language programming, assembler, loader, macros, subroutines, and program linkages. Prerequisite: COSC 1336 with a grade of "C" or better and consent of instructor. (RM)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

COSC 2436 - Programming Fundamentals III

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs) and algorithmic analysis.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology)	3
Elective*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Elective*	3
*Mathematics/Life & Physical Science Core	3
SPCH 1311 (Introduction to Speech Communication)	3

ITSY 1300 (Fundamentals of Information Security)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Elective*	3
*Language, Philosophy, Culture/Creative Arts	3
CPMT 2345 (Computer Systems Troubleshooting)	3
CPMT 1349 (Computer Networking Technology)	3
Elective*	3
ITSC 1316 (Linux Installation and Configuration)	3
*Social & Behavioral Science Core	3

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309. ITSY 2317, ITNW 2355, ITSC 1342, ITSC 2325

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
ITSC 2339 (Personal Computer Help Desk)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1308 (Implementing and Supporting Client Operating Systems)	3
CPMT 1349 (Computer Networking Technology)	3
CPMT 2345 (Computer Systems Troubleshooting)	3
ITNW 2305 (Network Administration)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
EECT 1407 (Convergent Technologies)	4
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3

ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1349 (Computer Networking Technology)	3
ITNW 2305 (Network Administration)	3
CPMT 2345 (Computer Systems Troubleshooting)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CPMT 1303 - Intro to Computer Technology

A fundamental computer course that provides explanation of the utilization of computer hardware and software with an emphasis on terminology, acronyms, and hands on activity.

Upon completion, students will be able to:

- utilization of computer hardware and software with an emphasis on terminology, acronyms, and hands on activity

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 1311 - Intro to Computer Maintenance

Introduction to the installation, configuration, and maintenance of a microcomputer system.

Upon completion, students will be able to:

- Installation, configuration, and maintenance of a microcomputer system.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 1345 - Computer Systems Maintenance

Functions and troubleshooting of operating systems. Development of skills in the use of test equipment and maintenance aids.

Upon completion, students will be able to:

- Functions and troubleshooting of operating systems

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Course text is the CompTIA Network+ exam prep guide
-

CPMT 1349 - Computer Networking Technology

Networking fundamentals, terminology, hardware, software, and network architecture. Includes local, wide area, and wireless networking installations and operations.

Upon completion, students will be able to:

- Networking fundamentals, terminology, hardware, software, and network architecture

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 1391 - Special Topics in Computer Installation and Repair Technology/Technician

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CPMT 2345 - Computer Systems Troubleshooting

Principles and practices involved in computer system troubleshooting techniques and repair procedures involving advanced diagnostic test programs and the use of specialized equipment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0
Prerequisites:

- [CPMT 1345](#) - Computer Systems Maintenance
-

CPMT 2350 - Industry Certification Preparation

Overview of the objectives for industry specific certification exam(s).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0
Prerequisites:

- [CPMT 1311](#) - Intro to Computer Maintenance
-

CPMT 2388 - Internship - Computer Installation and Repair Technology/Technician.

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0

CPMT 2389 - Internship

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Prerequisites:

- [CPMT 2388](#) - Internship - Computer Installation and Repair Technology/Technician.
-

CPMT 2688 - Internship - Computer Installation and Repair Technology/Technician

A workbased learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 6.0

Criminal Justice Technology

Overview

Grayson College offers an Associate of Applied Science degree in Criminal Justice and a Certificate in Law Enforcement. A separate offering is available at the Texoma Regional Police Academy, which includes classroom, hands-on activities and physical training to produce graduates ready to enter the workforce. Police Academy graduates earn a Certificate of Completion.

The Criminal Justice AAS degree program is also available in an online format.

Courses that start with CJSA may also be taken for non-credit through the GC Continuing Education division.

Course Requirements

The Associate of Applied Science Degree requires that you have a High School Diploma or an equivalent and that you have satisfied TSI requirements.

Capstone Experience

Graduation with an Associate of Applied Science Degree in Criminal Justice requires successful completion of a Comprehensive Exit Exam.

Local Employers

Grayson County Sheriffs Department, Sherman Police Department, Denison Police Department, Pottsboro Police Department, Howe Police Department

AAS Degree Requirements

Associate of Applied Science - Criminal Justice Technology

Subject	Semester Hours
* CRIJ 1301 / CJSA 1322 (Intro to Criminal Just.)	3
ENGL 1301 (Composition I)	3
* CRIJ 1306 / CJSA 1313 (Court Systems Practices)	3
* CRIJ 1310 / CJSA 1327 (Fundamentals of Criminal Law)	3
HIST 1301 (United States History I)	3
* CRIJ 1307 / CJSA 1312 (Crime in America)	3
ENGL 2311 (Technical and Business Writing)	3
* CRIJ 2314 / CJSA 1342 (Criminal Investigation)	3
* SPCH 1311 (Intro to Spch Comm.) / 1321 Business and Professional Comm.	3
HIST 1302 (United States History II)	3
* CRIJ 2301 / CJCR 2324 (Community Resources in Corrections)	3
GOVT 2305 (Federal Government)	3
* CRIJ 2313 / CJCR 1307 (Correctional Systems and Practices)	3
* CRIJ 2323 / CJSA 2300 (Legal Aspects of Law Enforcement)	3
SOC1 1301 (Introduction to Sociology)	3
CJSA 2334 (Contemporary Issues in Criminal Justice)	3
* MATH 1332 (Contemporary Mathematics)	3
CRIJ 2328 / CJSA 1359 (Police Systems and Practices)	3
* HUMA 1301 (Introduction to the Humanities I)	3
*Elective	3
	<hr/> 60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Law Enforcement Certificate

Subject	Semester Hours
*Four CRIJ/CJSA courses	12
CJLE 1506 (Basic Peace Officer I)	5
CJLE 1512 (Basic Peace Officer II)	5
CJLE 1518 (Basic Peace Officer III)	5
CJLE 1524 (Basic Peace Officer IV)	5
CJLE 1329 (Basic Peace Officer V)	3
CJLE 1211 (Basic Firearms)	2
	37

Capstone Requirement: All students must pass the Texas Commission on Law Enforcement (TCOLE) Basic Peace Officer Exam.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Students who desire Associate of Applied Science Degree, see degree requirements.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CRIJ 1301 - Introduction to Criminal Justice

This course provides a historical and philosophical overview of the American criminal justice system, including the nature, extent, and impact of crime; criminal law; and justice agencies and processes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 1306 - Court Systems and Practices

This course is a study of the court system as it applies to the structures, procedures, practices and sources of law in American courts, using federal and Texas statutes and case law.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 1307 - Crime in America

American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 1310 - Fundamentals of Criminal Law

This course is the study of criminal law including application of definitions, statutory elements, defenses and penalties using Texas statutes, the Model Penal Code, and case law. The course also analyzes the philosophical and historical development of criminal law and criminal culpability.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 1313 - Juvenile Justice System

Study of juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2301 - Community Resources in Corrections

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2313 - Correctional Systems and Practices

This course is a survey of institutional and noninstitutional corrections. Emphasis will be placed on the organization and operation of correctional systems; treatment and rehabilitation; populations served; Constitutional issues; and current and future issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2314 - Criminal Investigation

Investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences, case and trial preparation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2323 - Legal Aspects of Law Enforcement

Police authority, responsibilities, constitutional restraints, laws of arrest, search and seizure, and police liability.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2328 - Police Systems and Practices

This course examines the establishment, role and function of police in a democratic society. It will focus on types of police agencies and their organizational structure, police-community interaction, police ethics, and use of authority.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Cosmetology

Overview

Grayson College's cosmetology programs may be completed in one year or less, and are affordable at community college tuition rates as compared to private training programs.

GC students train in a modern salon environment and earn experience hours with patrons from the community. The Cosmetology Salon is located in the Career and Technology Center on the Main Campus. Training options include:

A complete one-year **Cosmetology Certificate Program** prepares students with professional skills for hair styling, manicures, pedicures, skincare, hair shaping, chemical reformation, principles of hair coloring, and other related courses.

The **Nail Technician Program** prepares students with professional skills in manicuring, nail structure and growth, advance nail techniques, and other related courses. It is a 5 (five) month certificate program, where successful

students earn certificates of graduation and then eligible to apply for the State Board Examination. Students who successfully complete the state exam will then become a licensed Nail Technician.

The **Esthetician and Skin Care Specialist Program** prepares students with professional skills for skin-care and other related courses. It is a 9 (nine) month certificate program, where upon completion of the program, students are awarded certificates of graduation and are then eligible to apply for the State Board Examination. Students who successfully complete the state exam will then become a licensed Esthetician & Skin Care Specialist.

The **Cosmetology Instructor Program** prepares licensed cosmetologists with professional skills for teaching. Upon completion of the program students will be awarded certificates of completion and then become eligible to apply for the Instructor State Board Examination. Grayson College offers the training in a 9 (nine) month certificate program, or a 5 (five) month certificate program for cosmetologists with at least one year of work experience in the cosmetology field.

Course Requirements

- The **Cosmetology Certificate Program** requires that you have a High School Diploma or GED, complete 42 semester hours of cosmetology courses and 1500 clock hours. High School students in the 11th grade may enter, but must complete the high school requirements before receiving their certificate.
- The **Nail Technician Program** requires that you have a High School Diploma or GED, be 17 years of age and complete 600 clock hours.
- The **Esthetician and Skin Care Specialists Program** requires that you have a High School Diploma or GED, be 17 years of age and complete 750 hours.
- The **Cosmetology Instructor Program** requires that you have a High School Diploma or GED, be 18 years of age and complete 750 clock hours for the nine-month program and 500 clock hours for the five-month program.

Students should contact the Admissions Office prior to enrollment.

Capstone Experience

- **Certificate in Cosmetology** requires successful completion of CSME 2441 with at least a 70% and mock Cosmetology State Board Exam.
- **Certificate in Nail Technology** requires successful completion of CSME 1443 with at least a 70% and a mock State Board Exam.
- **Certificate in Esthetician and Skin Care** requires successful completion of CSME 2431 with at least a 70% and a mock Esthetician State Board Exam.
- **Certificate in Cosmetology Instructor** requires successful completion of CSME 2445 with at least a 70% and mock Instructor State Board Exam.

Local Employers

J. Toland, Big Apple Beauty Mall, Pro-Cuts, J.C. Penney's, Continental

Certificate Degree Requirements

Cosmetology Certificate

Subject	Semester Hours
CSME 1401 (Orientation to Cosmetology)	4
CSME 1405 (Fundamentals of Cosmetology)	4
CSME 1310 (Introduction to Haircutting and Related Theory)	3
CSME 1443 (Manicuring and Related Theory)	4
CSME 1453 (Chemical Reformation and Related Theory)	4
CSME 2401 (The Principles of Hair Coloring and Related Theory)	4
CSME 2343 (Salon Development)	3
CSME 1451 (Artistry of Hair, Theory and Practice)	4
CSME 1447 (Principles of Skin Care/Facials and Related Theory)	4
CSME 2439 (Advanced Hair Design)	4

[CSME 2441](#) (Preparation for Texas Cosmetology Commission Examination) 4

42

Upon completion of 42 semester hours of Cosmetology courses and completion of 1500 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Cosmetology State Board Exam.

Capstone Experience: Pass CSME 2441 with at least 70% and a mock Cosmetology State Board Exam.

Cosmetology—Esthetician and Skin Care Specialist

Subject	Semester Hours
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CSME 1348 (Principles of Skin Care)	3
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CSME 1547 (Principles of Skin Care/Facials and Related Theory)	5
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CSME 1521 (Principles of Facial/Esthetics Technology)	5
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CSME 1545 (Principles of Facial/Esthetics Technology II)	5
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CSME 2431 (Principles of Facial/Esthetics Technology III)	4
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22

Upon completion of 22 semester hours of Esthetician courses and completion of 750 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Esthetician State Board Exam. Capstone Experience: Pass CSME 2431 with at least 70% and a mock Esthetician State Board Exam.

Cosmetology—Nail Technician

Subject	Semester Hours
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CSME 1430 (Orientation to Nail Technology)	4
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CSME 1431 (Principles of Nail Technology I)	4
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CSME 1441 (Principles of Nail Technology II)	4
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CSME 1443 (Manicuring and Related Theory)	4
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16

Upon completion of 16 semester hours of Nail Technician courses and completion of 600 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Nail Technician State Board Exam.

Capstone Experience: Pass CSME 1443 with at least 70% and a mock State Board Exam.

Cosmetology—Instructor

CSME 1535 (Orientation to the Instruction of Cosmetology)	5
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CSME 1434 (Cosmetology Instructor I)	4
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CSME 2414 (Cosmetology Instructor II)	4
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CSME 2449	4
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CSME 2444 (Cosmetology Instructor IV)	4
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CSME 2445 (Instructional Theory & Clinic Operations)	4
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25

Upon completion of 25 semester hours of Instruction courses and completion of 750 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Instructor State Board Exam. Capstone Experience: Pass CSME 2445 with at least 70% and a mock Instructor State Board Exam.

Cosmetology Instructor

(with at least one year of work experience in the cosmetology field)

Subject	Semester Hours
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CSME 1535 (Orientation to the Instruction of Cosmetology)	5
CSME 1434 (Cosmetology Instructor I)	4
CSME 2444 (Cosmetology Instructor IV)	4
CSME 2445 (Instructional Theory & Clinic Operations)	4
<hr/>	
	17

Upon completion of 17 semester hours of instruction courses and completion of 500 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Instructor State Board Exam

Capstone Experience: Pass CSME 2445 with at least 70% and Mock Instructor State Board Exam.

CSME 1310 - Introduction to Haircutting and Related Theory

Introduction to the theory and practice of hair cutting. Topics include terminology, implements, section haircutting and finishing techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

CSME 1348 - Principles of Skin Care

An introduction of the theory and practice of skin care.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [CSME 1521](#) - Principles of Facial/Esthetics Technology
-

CSME 1401 - Orientation to Cosmetology

An overview of the skills and knowledge necessary for the field of cosmetology. Corequisite: CSME 1405, Fundamentals of Cosmetology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1405](#) - Fundamentals of Cosmetology
-

CSME 1405 - Fundamentals of Cosmetology

A course in the basic fundamentals of cosmetology. Topics include service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling and comb outs

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1430 - Orientation to Nail Technology

An overview of the fundamental skills and knowledge necessary for the field of nail technology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1431](#) - Principles of Nail Technology I
-

CSME 1431 - Principles of Nail Technology I

A course in the principles of nail technology. Topics include anatomy, physiology, theory, and skills related to nail technology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology
-

CSME 1434 - Cosmetology Instructor I

The fundamentals of instructing cosmetology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 5.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 1441 - Principles of Nail Technology II

A continuation of the concepts and principles of nail technology. Topics include advanced instruction in anatomy, physiology, theory, and related skills of nail technology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology
-

CSME 1443 - Manicuring and Related Theory

Presentation of the theory and practice of nail technology. Topics include terminology, application, and workplace competencies related to nail technology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1447 - Principles of Skin Care/Facials and Related Theory

In-depth coverage of the theory and practice of skin care, facials and cosmetics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1451 - Artistry of Hair, Theory and Practice

Instruction in the artistry of hair design. Topics include theory, techniques and application of hair design.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1453 - Chemical Reformation and Related Theory

Presentation of the theory and practice of chemical reformation. Topics include terminology, application and workplace competencies related to chemical reformation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1521 - Principles of Facial/Esthetics Technology

An introduction to the principles of facial/esthetic technology. Topics include anatomy, physiology, theory, and related skills of facial/esthetic technology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 8.0

Prerequisites:

- [CSME 1348](#) - Principles of Skin Care
-

CSME 1535 - Orientation to the Instruction of Cosmetology

An overview of the skills and knowledge necessary for the instruction of cosmetology students

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lecture hours: 2.0

Lab hours: 9.0

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 1545 - Principles of Facial/Esthetics Technology II

A continuation of the concepts and principles in skin care and other related technologies. Topics include advanced instruction in anatomy, physiology, theory, and related skills of facial/esthetic technology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 8.0

CSME 1547 - Principles of Skin Care/Facials & Related Theory

In-depth coverage of the theory and practice of skin care, facials, and cosmetics

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 8.0

CSME 2343 - Salon Development

Exploration of salon development. Topics include professional ethics and goals, salon operations and record keeping.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

CSME 2401 - The Principles of Hair Coloring and Related Theory

Presentation of the theory and practice of hair color and chemistry. Topics include terminology, application, and workplace competencies related to hair color and chemistry

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 2414 - Cosmetology Instructor II

A continuation of the fundamentals of instructing cosmetology students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 5.0

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 2415 - Cosmetology Instructor III

Presentation of lesson plan assignments and evaluation techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 2431 - Principles of Facials/Esthetics Technology III

Demonstrate professional ethics, salon management, and develop client relations and related skills in preparation for the Texas Cosmetology Commission examination.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 8.0

CSME 2439 - Advanced Hair Design

Advanced concepts in the theory and practice of hair design.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 2441 - Preparation for Texas Cosmetology Commission Examination

Preparation for the Texas Cosmetology Commission Operator Examination

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 8.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 2444 - Cosmetology Instructor IV

Advanced concepts of instruction in a cosmetology program. Topics include demonstration, development, and implementation of advanced evaluation and assessment techniques

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 4.0
Lecture hours: 2.0
Lab hours: 8.0
Restrictions:

- Valid Texas Cosmetology Commission License
- High School Diploma or GED

CSME 2445 - Instructional Theory & Clinic Operations

An overview of the objectives required by the Texas Cosmetology Commission Instructor Examination.
Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 4.0
Lecture hours: 3.0
Lab hours: 3.0
Restrictions:

- Valid Texas Cosmetology Commission License
- High School Diploma or GED

Dance

Overview

For students interested in pursuing an Dance degree and transferring to a four-year institution, as a general rule, students should follow the Associate of Arts Degree in General Studies at Grayson College as part of the Arts & Humanities Career Pathway. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCI 1301 Introductory Sociology
SOCI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

DANC 1145 - Modern Dance I

Instruction and participation in modern dance technique.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

DANC 1147 - Jazz Dance I.

Instruction and participation in jazz dance technique.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

CADD Technology

Overview

The Computer Aided Drafting and Design (CADD) program offers an exciting and profitable future. Students who enroll in CADD at Grayson College learn the latest drafting software as well as the essentials for a challenging and satisfying career. Students learn basic drafting techniques, 2D drawing, solid modeling, 3D parametric modeling and 3D printing. As technology expands, the need for technical support people also expands. Over 95% of Grayson College's CADD graduates get a job in the drafting field or continue their education at a four-year institution. 3D modeling is rapidly growing in various industries including; medical, art, food, clothing, film, animation, gaming, architecture, manufacturing, industrial design, and interior design. The CADD curriculum at Grayson College prepares students for jobs in mechanical, electromechanical, architectural, industrial and technical illustration, as well as the previously mentioned areas of interest.

The Computer Aided Drafting and Design program offers an Associate of Applied Science Degree, the Drafting Assistant Certificate and the CADD Technician Certificate.

Course Requirements

The Associate Degree, the CADD Technician Certificate and the Drafting Assistant Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

Graduation with a CADD Certificate or an Associate of Applied Science Degree in Computer Aided Drafting and Design requires successful completion of a Comprehensive Exit Exam.

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
DFTG 1309 (Basic Computer Aided Drafting)	3
DFTG 1317 (Architectural Drafting - Residential)	3
* SPCH 1311 , 1315 or 1321	3
DFTG 1405 (Adv Tech in Architectural Design & Drafting)	4
*Lang, Phil, Culture/Creative Arts Core	3
DFTG 2331 (Mechanical Drafting)	3
DFTG 1433 (Intermediate Computer-Aided Drafting)	4
DFTG 2419 (Computer-Aided Drafting)	4
*Social and Behavioral Science	3
DFTG 2402 (Machine Drafting)	4
DFTG 2417 (Descriptive Geometry)	4
DFTG 1445 (Parametric Modeling and Design)	4
ENGL 1301 (Composition I)	3
DFTG 2440 (Solid Modeling/Design)	4
DFTG 2438 (Final Project - Adv. Drafting)	4
DFTG 2450 (Geometric Dimensioning & Tolerancing)	4
MATH 1314 (College Algebra)	3

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Computer Aided Drafting Technician

Subject	Semester Hours
DFTG 1309 (Basic Computer-Aided Drafting)	3
DFTG 1317 (Architectural Drafting - Residential)	3
DFTG 1405 (Technical Drafting)	4
* SPCH 1311 (Intro to Spch.) or 1321 (Business and Professional Comm.)	3
DFTG 2331 (Adv. Tech in Architectural Design & Drafting)	3
DFTG 1433 (Mechanical Drafting)	4
DFTG 2419 (Intermediate Computer-Aided Drafting)	4

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Computer Aided Drafting Assistant

Subject	Semester Hours
DFTG 1309 (Basic Computer-Aided Drafting)	3
DFTG 1317 (Architectural Drafting - Residential)	3
DFTG 1405 (Technical Drafting)	4
DFTG 2419 (Intermediate Computer-Aided Drafting)	4
* SPCH 1311 (Intro to Spch.) or 1321 (Business and Professional Comm.)	3

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

DFTG 1309 - Basic Computer-Aided Drafting

Upon completion, students will be able to: • Accurately create and modify geometry. • Effectively create and use layers • Understand and efficiently use OSNAP, OTRACK, ORTHO, POLAR options in AutoCAD. • Setup layout sheets • Understand and use appropriate terminology relating to AutoCAD

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

DFTG 1317 - Architectural Drafting – Residential

Upon completion, students will be able to: • Utilize architectural terms, symbols and residential construction materials • Understand Sheet Sets to include, floor plans, site plan, elevations wall sections, schedules, details and foundation plans.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

DFTG 1325 - Blueprint Reading

An introduction to reading and interpreting working drawings for fabrication processes and associated trades. Use of sketching techniques to create pictorial and multiple-view drawings.

Upon completion, students will be able to:

- Systems of measurement and industry standards.
- Interpretation of plans and drawing used by industry to facilitate field application and production
- Terminology, symbols, graphic description, and welding processes

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

DFTG 1405 - Technical Drafting

Upon completion, students will be able to: • Understand the principles of drafting to include terminology and fundamentals of drafting standards. • Create accurate orthographic drawings/projections. • Understand projection methods of and create section views and auxiliary views. • Learn "Alphabet of lines". • Read scales of architectural and mechanical drawings.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 4.0

DFTG 1433 - Mechanical Drafting

Upon completion, students will be able to: • Develop Assembly drawings • Develop detail drawings using correct dimensioning/drawing layout techniques. • Create pictorial drawing. • Apply appropriate sectioning and auxiliary standards.

Upon completion, students will be able to:

- Study of mechanical drawings using dimensioning and tolerances, sectioning techniques, orthographic projection and pictorial drawings

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
 - [DFTG 1405](#) - Technical Drafting
-

DFTG 1445 - Parametric Modeling and Design

Parametric-based design software for 3D design and drafting, using Creo software. Upon completion, students will be able to: • Create solid models using parametric modeling software. • Understand drawing setup and layout in parametric modeling. • Create 2D drawings from 3D Solids.

Upon completion, students will be able to:

- Parametric-based design software for 3D design and drafting.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 2419](#) - Intermediate Computer-Aided Drafting

Restrictions:

- DFTG 2432 or Consent of Instructor
-

DFTG 2331 - Advanced Technologies in Architectural Design and Drafting

Upon completion, students will be able to: • Develop plan and elevation drawings. • Create a 3D model and create 2d drawings and details from model. • Use architectural techniques to design, assemble, evaluate and render architectural building components.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
 - [DFTG 1317](#) - Architectural Drafting – Residential
-

DFTG 2402 - Machine Drafting

Upon completion, students will be able to: • Create Auxiliary views from solid models. • Solve problems with complex integrated parts. • Create complete drawing packages • Utilize different resources and standards for machine design

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1433](#) - Mechanical Drafting
 - [DFTG 2419](#) - Intermediate Computer-Aided Drafting
-

DFTG 2417 - Descriptive Geometry

Upon completion, students will be able to: • Understand objects in space. • Project objects in 2 dimensions. • Student to identify, organize, plan and allocate resources. • To provide the student experience in solving problems, visualize with the minds eye, reason and how to acquire and apply new knowledge and skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1405](#) - Technical Drafting
-

DFTG 2419 - Intermediate Computer-Aided Drafting

Upon completion, students will be able to: • Import and extract data utilizing attributes. • Create Dimensioning Styles and effectively dimension drawings. • Understand and use prototype drawings. • Use external referencing of multiple drawings to construct a composite drawing. • Gain knowledge in basic 3D modeling

Upon completion, students will be able to:

- techniques used in basic computer-aided drafting including the development and use of prototype drawings, construction of pictorial drawings, extracting data and basics of 3D

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
-

DFTG 2438 - Final Project – Advanced Drafting

A drafting course in which students participate in a comprehensive project from conception to conclusion. • Identify Problems • Use industry standard research techniques. • Create complete drawing packages

Upon completion, students will be able to:

- A drafting course in which students participate in a comprehensive project from conception to conclusion.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DFTG 2440 - Solid Modeling/Design

A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work. • Create complex 3D models / drawing packages. • Use industry standard research techniques for assembly part requirements.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DFTG 2450 - Geometric Dimensioning and Tolerancing

Upon completion, students will be able to: • Apply Tolerance, Feature Control frame, feature of size, datums, form orientation, location, runout and profile controls between various parts. • Calculate appropriate Tolerances

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DGTG 2486 - Internship – Drafting and Design Technology/Technician, General.

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- Apply specialized occupational theory, skills and concepts.

Grade Basis: L

Credit hours: 4.0

Restrictions:

- This is a 20 hour per week internship program
-

Dental Assisting

Overview

There are two options for the Dental Assisting Program at Grayson College: **Dental Assisting Certificate** or the **Associate of Applied Science Degree in Dental Assisting**.

The **Associate of Applied Science Degree in Dental Assisting** is designed to prepare the student to function effectively as an integral member of the dental health care team. The AAS degree consists of nine and on-half months of dental assisting coursework in addition to twenty-five hours of academic coursework. Following graduation, the student will be eligible to sit for the exam to become a Certified Dental Assistant in addition to having an Associate of Applied Science degree.

The **Dental Assisting Certificate** is designed to prepare the student to function effectively as an integral member of the dental health care team. The student will participate in classroom instruction, laboratory procedures, and supervised clinical experiences in order to learn the basic functions required of a Dental Assistant.

The Certificate of Dental Assisting is a nine and one-half month program. Upon completion, the graduate is eligible to file application to the State Board of Dental Examiners for registration. The graduate is also eligible to take the examination given by the Dental Assisting National Board (DANB) to become a Certified Dental Assistant (CDA). Becoming a RDA and CDA assures that the graduate is prepared to assist competently in providing quality dental care.

Admission Requirements

1. Application to Grayson College. (Online at www.grayson.edu)
2. [Application to the Dental Assisting Program](#)
3. Passed THEA or COMPASS or TSI waived
4. High School transcript or GED scores
5. Transcript for colleges or universities with cumulative GPA of 2.5 or higher
6. Documentation of required immunizations

Eligibility for Licensure:

Students who have been involved in the criminal system may not be eligible for licensure following graduation. If you feel this applies to you, please seek guidance from the Program Director or Health Science Advisor prior to enrollment.

Pre-Requisites for the certificate program:

ENGL 1301

PSYC 2301

Deadlines

The Dental Assisting Program accepts one class each fall. For fall admission, the last day to submit application and all required papers is April 30. Final transcripts for courses taken in the spring semester will be accepted until June 1.

****Please note that 24 applicants are accepted each year and applications may be accepted up to August if the class has not been filled.**

Turn in to the College

1. Online application for admission to GC
2. Official transcripts for all colleges previously attended

Turn in to the Dental Assisting Program

1. Unofficial copies of all transcripts
2. Dental Assisting program applications (Circle Dental Assisting)
3. Documentation of required immunizations

Selection and Acceptance Procedure

1. Applications are reviewed for required documentation by the Dental Assisting Admissions Committee. Only those with complete files will be considered for admission.
2. Applicants with incomplete files will be kept for one additional admission period unless additional time is requested in writing.
3. The number of students that can be admitted to the Dental Assisting program is limited by classroom and clinical space and by qualified faculty availability. Therefore, a selection procedure is used to identify candidates who are the most academically prepared.
4. Once all eligible applicants have been evaluated and ranked, students will be admitted from the highest ranking to the lowest, until all spaces are filled. If there are more eligible candidates than there are spaces available, a waiting list will be developed. Should spaces become available prior to the first day of class, applicants will be notified.
5. **Applicants will be notified in writing regarding selection or non-selection within 6 weeks of the April 30 deadline.**

Final Acceptance Requirements (Following notification of acceptance)

When an acceptance letter is received, instructions for the following will be included in the letter.

1. TB test and completed documents to be turned in prior to first day of class.
2. CPR Certification (American Heart Association Basic Life Support Provider) must be completed **prior to FIRST DAY OF CLASS**. Must include a face to face skills demonstration.
3. Dental Examination must be completed prior to **FIRST DAY OF CLASS**.
4. Pass a urine drug screen and a criminal background check, as instructed by the program.

Required Immunizations

All students must submit a copy of the following immunizations with a valid stamp or signature, a signed statement from a physician, or lab report indicating serologic immunity. **Please note that some of these immunizations take up to six months to complete. Immunizations must be started in time to complete the series before the FIRST DAY OF CLASS. If unable to complete the series before the beginning of class, the applicant is not eligible for admission.**

1. TETANUS/DIPHTEHERIA/PERTUSSIS (Tdap)
One dose of the Tetanus/diphtheria/pertussis (Tdap) immunization within the last 10 years.
2. MEASLES, MUMPS, RUBELLA (MMR)
(Immunizations or blood test) If born after January 1, 1957 must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart – or – proof of serologic confirmation of measles, mumps and rubella immunity – or- serologic evidence of past infection.
3. VARICELLA (Chickenpox)(Immunization or blood test)
Series of two Varicella (Chickenpox) vaccines- or –serologic confirmation of immunity to Varicella
4. HEPATITIS B (Immunization or blood test)
Series of three hepatitis B vaccines- or- serologic confirmation of immunity to hepatitis B.
5. INFLUENZA VACCINE
Annual influenza vaccination as recommended by the CDC in the fall of each year.
6. MENINGOCOCCAL VACCINE
All on-campus college students who are under the age of 22 must have the meningococcal vaccination within the previous five years and at least 10 days prior to the first day of class.

Due to compliance with clinical facility requirements and Texas Department of Health recommendations, GC Health Science programs may not waiver immunization requirements for any reason. If immunizations are not complete, application to the program must be delayed.

Copies of records from physician's offices, public health department, public schools, other colleges and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Accreditation Information

This program is approved by:

The Commission of Dental Accreditation
211 East Chicago Avenue
Chicago, Illinois 60611
Ph: 312-440-4653
www.ada.org/coda

Application Information

Deadline: April 30

Packet: [Dental Assisting Packet](#)

Outcomes

Pass, Fail, Graduation Rates

Year	Graduation Rate	Success Rate (RDA Exam)	Job Placement
2014-2015	91%	100%	81%
2015-2016	91%	100%	76%
2016-2017	82%	100%	89%

AAS Degree Requirements

Associate of Applied Science

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Subject	Semester Hours
ENGL 1301 (Comp. I)	3
* MATH 1332 or 1342 or 1314	3
SOC1 1301 (Intro to Sociology)	3
HIST 1301 (U.S. History I)	3

* ARTS 1301 , HUMA 1301 , MUSI 1306 or PHIL 1301	3
BIOL 2404 (Anatomy and Physiology)	4
PSYC 2301 (General Psychology)	3
* EDUC/PSYC 1300 , SPCH 1311 , 1321 , OR ENGL 2311	3
DNTA 1245 (Preventive Dentistry)	2
DNTA 1305 (Dental Radiology)	3
DNTA 1311 (Dental Science)	3
DNTA 1315 (Chairside Assisting)	3
DNTA 1301 (Dental Materials)	3
DNTA 1202 (Comm and Behavior in the Dental Office)	2
DNTA 1251 (Dental Office Management)	2
DNTA 1347 (Adv. Dental Science)	3
DNTA 1349 (Dental Radiology in the Clinic)	3
DNTA 1353 (Dental Assisting Applications)	3
DNTA 1460 (Clinical-Dental Assisting)	4
DNTA 2230 (Seminar for the Dental Assistant I)	2
DNTA 2260 (Clinical-Dental Assisting)	2

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Certificate of Dental Assisting

Subject	Semester Hours
Prerequisites	
ENGL 1301 (Comp I)	3
PSYC 2301 (General Psychology)	3
	6
DNTA 1245 (Preventive Dentistry)	2
DNTA 1305 (Dental Radiology I)	3
DNTA 1311 (Dental Science)	3
DNTA 1315 (Chairside Assisting)	3
DNTA 1301 (Dental Materials)	3
DNTA 1202 (Comm. and Behavior in the Dental Office)	2
DNTA 1251 (Dental Office Management)	2
DNTA 1347 (Adv. Dental Science)	3
DNTA 1349 (Dental Radiology in the Clinic)	3
DNTA 1353 (Dental Assisting Apps)	3
DNTA 1460 (Clinical-Dental Assisting)	4
DNTA 2230 (Seminar for the Dental Assistant)	2
DNTA 2260 (Clinical-Dental Assisting)	2

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

DNTA 1202 - Communication and Behavior in the Dental Office

The study of human interaction and communication in the dental office.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent enrollment: DNTA 1245, 1305, 1311, 1315, 1301
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1245 - Preventive Dentistry

The study and prevention of dental diseases and community dental health.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1301, 1305, 1311, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1251 - Dental Office Management

Use of computers and / or manual systems to process dental information and interpret and practice learned dental office management skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Concurrent enrollment: DNTA 1347, 1349, 1353, 2230, 1460
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1301 - Dental Materials

Composition, properties, procedures and safety standards related to dental materials.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1245, 1305, 1311, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1305 - Dental Radiology I

Introduction to radiation physics, protection, the operation of radiographic equipment, exposure, processing and mounting of dental radiographs. Specific federal and state safety and standard practices for the classroom and lab settings will be practiced.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1245, 1301, 1311, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1311 - Dental Science

A fundamental study of anatomical systems with emphasis placed on head and neck anatomy. Topics include embryology of the teeth along with basic dental terminology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1245, 1301, 1305, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1315 - Chairside Assisting

A study of pre-clinical chair side assisting procedures, instrumentation, OSHA and other regulatory agency standards. Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1245, 1301, 1305, 1311
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1347 - Advanced Dental Science

An advanced study of anatomical systems, pharmacology, or pathology, and developmental abnormalities. Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent enrollment: DNTA 1251, 1349, 1353, 2230, 1460
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1349 - Dental Radiology in the Clinic

The practical application of exposing, processing and mounting diagnostically acceptable radiographs obtained by utilizing various radiographic techniques. This course will encompass critical evaluation of all procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: DNTA 1251, 1347, 1353, 1460, 2230
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1353 - Dental Assisting Applications

An expanded function of dental assisting techniques with emphasis on four-handed dentistry and utilization of armamentarium for general practice and specialty procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Restrictions:

- Concurrent enrollment: DNTA 1251, 1347, 1349, 1460, 2230
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1460 - Clinical-Dental Assisting / Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lab hours: 16.0

Restrictions:

- Concurrent enrollment: DNTA 1251, 1347, 1349, 1353, 2230
 - Must be taken in sequence as listed in degree plan.
-

DNTA 2230 - Seminar for the Dental Assistant I

Analysis of case studies during the clinical phase of practicum I clinical.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: 1251, 1347, 1349, 1353, 1460
 - Must be taken in sequence as listed in degree plan.
-

DNTA 2260 - Clinical-Dental Assisting / Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lab hours: 6.0

Restrictions:

- Must be taken in sequence as listed in degree plan.
-

Theatre

Overview

The Drama/Theatre Associate of Arts degree at Grayson College is designed for transfer to four-year institutions and is part of the **Arts & Humanities Career Pathway**. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Arts degree in Theatre.

AA Degree Requirements

Associate of Arts - Theatre

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Subject	Semester Hours
DRAM 1351 (Acting I)	3
DRAM 1120 (Theatre Practicum I)	1
DRAM 1121 (Theatre Practicum II)	1
DRAM 1330 (Stagecraft I)	3
ENGL1301 (Composition I)	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300 or Component Area Option 1	
* DRAM 2331 or 1352	3
DRAM 2120 (Theatre Practicum III)	1
* SPCH 1311 , 1315 or 1321	3
*History Core	3
*Mathematics Core	3
* DRAM 1120 and/or DRAM 1121	1
DRAM 1341 (Stage Make-Up)	3
* DRAM 1310 or DRAM 2366	3
GOVT 2305 (Federal Government)	3
*Social & Behavioral Sciences Core	3
*Life & Physical Sciences Core	3
Science Lab	1
DRAM 2120 (Theatre Practicum III)	1
*Language, Philosophy & Culture Core	3
GOVT 2306 (Texas Government)	3
*Life & Physical Sciences Core	3
Science Lab	1
DRAM 2121 (Theatre Practicum IV)	1
*Component Area Option 2	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I

ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

DRAM 1120 - Theatre Practicum

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. To be taken concurrently with DRAM 1330.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- May be repeated one time for credit.
- To be taken concurrently with DRAM 1330.

DRAM 1121 - Theatre Practicum II

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. May be repeated one time for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- May be repeated one time for credit.
 - Lab to be taken concurrently with DRAM 1351 and DRAM 1352
-

DRAM 1310 - Introduction to Theatre

Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

DRAM 1330 - Stagecraft I

Study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management. To be taken concurrently with DRAM 1120.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

Restrictions:

- Must also enroll in DRAM 1120
-

DRAM 1341 - Stage Make-Up

Design and execution of makeup for the purpose of developing believable characters. Includes discussion of basic makeup principles and practical experience of makeup application.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 1342 - Introduction to Costuming

Principles and techniques of costume design and construction for theatrical productions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

DRAM 1351 - Acting I

An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor's instrument: voice, body and imagination. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 1352 - Acting II

Exploration and further training within the basic principles and tools of acting, including an emphasis on critical analysis of oneself and others. The tools include ensemble performing, character and script analysis, and basic theater terminology. This will continue the exploration of the development of the actor's instrument: voice, body and imagination. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 2120 - Theatre Practicum III

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. To be taken concurrently with DRAM 2331. May be repeated one time for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- May be repeated one time for credit.
 - Two semesters of DRAM 1120
-

DRAM 2121 - Theatre Practicum IV

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. To be taken concurrently with DRAM 2336 and DRAM 2351.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- May be repeated one time for credit.
 - Two semesters of DRAM 1121
-

DRAM 2331 - Stagecraft II

Advanced techniques in lighting design, sound design, and special effects and light rigging.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

Restrictions:

- Must also enroll in DRAM 1120.
-

DRAM 2336 - Voice and Diction

Application of the performer's use of the voice as a creative instrument of effective communication. Encourages an awareness of the need for vocal proficiency and employs techniques designed to improve the performer's speaking abilities. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

DRAM 2351 - Acting III

Development of basic skills and techniques of acting including increased sensory awareness, ensemble performing, character analysis, and script analysis. Emphasis on the mechanics of voice, body, emotion, and analysis as tools for the actor.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DRAM 1351](#) - Acting I
 - [DRAM 1352](#) - Acting II
-

DRAM 2366 - Introduction to Cinema

Survey and analyze cinema including history, film techniques, production procedures, selected motion pictures, and cinema's impact on and reflection of society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
<hr/>	
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6

040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCl 1301 Introductory Sociology
SOCl 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1346 - Drug Use and Abuse

Study of the use, misuse and abuse of drugs and other harmful substances in today's society. Physiological, sociological, pharmacological and psychological factors will be emphasized.

Upon completion, students will be able to:

- Analyze the physiological, pharmacological and psychological effects of licit and illicit drugs, related to use, misuse and abuse (including but not limited to) alcohol, tobacco, performance enhancing, over-the-counter prescription, and designer/synthetic drugs.
- Evaluate the sociological impact of drugs within the context of health literacy, recreational use, social implications, stereotypes, family dynamics and work environments.
- Articulate and apply behaviors related to personal responsibility including (but not limited to) healthy attitudes and behaviors, refusal skills, decisions-making, and risk-taking behavior.
- Compare and contrast how dependence and addiction occurs including (but not limited to) treatments and prevention strategies.
- Survey the historical influence on the drug-oriented society, sport and cultural beliefs and its bearing on personal drug behavior to include (but not limited to) laws and arise related to substance use, misuse, and abuse.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology

GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1346 - Drug Use and Abuse

Study of the use, misuse and abuse of drugs and other harmful substances in today's society. Physiological, sociological, pharmacological and psychological factors will be emphasized.

Upon completion, students will be able to:

- Analyze the physiological, pharmacological and psychological effects of licit and illicit drugs, related to use, misuse and abuse (including but not limited to) alcohol, tobacco, performance enhancing, over-the-counter prescription, and designer/synthetic drugs.
- Evaluate the sociological impact of drugs within the context of health literacy, recreational use, social implications, stereotypes, family dynamics and work environments.
- Articulate and apply behaviors related to personal responsibility including (but not limited to) healthy attitudes and behaviors, refusal skills, decisions-making, and risk-taking behavior.
- Compare and contrast how dependence and addiction occurs including (but not limited to) treatments and prevention strategies.
- Survey the historical influence on the drug-oriented society, sport and cultural beliefs and its bearing on personal drug behavior to include (but not limited to) laws and arise related to substance use, misuse, and abuse.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Economics

Overview

For students interested in pursuing an Art degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

ECON 2301 - Principles of Macroeconomics

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- sophomore standing or consent of division dean.
-

ECON 2302 - Principles of Microeconomics

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- sophomore standing or consent of division dean.

Education

Overview

For students interested in pursuing an education degree, Grayson College offers three options as part of the **Public Services Pathway**. Specific options include:

- Associate of Arts in Teaching in Grades 8-12 and other Early Childhood-Grade 12
- Associate of Arts in Teaching in Grades 4-8 and Early Childhood-Grade 12 Special Education
- Associate of Arts in Teaching Early Childhood-Grade 6 Generalists

Courses within the program align with State Board for Educator Certification Pedagogy and Professional Responsibilities Standards. The degree plan satisfies the core requirements for baccalaureate programs at four-year institutions that lead to initial Texas teacher certification.

All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

AAT 8-12 Degree Requirements

Associate of Arts in Teaching (AAT) Education Grades 8-12 and Early Childhood-Grade 12

The AAT in Grades 8-12 and other Early Childhood-Grade 12 licensure satisfies the lower-division requirements for bachelor's degree leading to initial Texas teacher certification in all 8-12 and specialized in EC-12 certification areas.

The Grades 8-12 Certification areas are: 8-12 History, 8-12 Social Studies, 8-12 Mathematics, 8-12 Life Sciences, 8-12 Physical Sciences, 8-12 Science, 8-12 English Language Arts & Reading, 8-12 Computer Science, 8-12 Technology Applications, 8-12 Health Science Technology Education, 8-12 Speech, 8-12 Journalism, 6-12 Business Education, 8-12 Marketing Education, 8-12 Mathematics & Physics, 8-12 Agricultural Sciences and Technology, 6-12 Technology Education, 6-12 Languages other than English, 6-12 Family and Consumer Sciences, 8-12 Dance, 8-12 Mathematics & Physical Science & Engineering, 8-12 Human Development and Family Studies, 8-12 Hospitality, Nutrition and Food Sciences, and 8-12 other content area teaching fields/academic disciplines TBA (Chemistry). The EC-Grade 12 Certification other than Special Education Certificate areas are: EC-12 Music, EC-12 Physical Education, EC-12 Art, EC-12 Health, EC-12 Theatre Arts, EC-12 Technology Applications, EC-12 Languages other than English, and EC-12 other non-special education fields.

Subject	Semester Hours
EDUC 1301 (Intro to the Teaching Profession)	3
ENGL 1301 (Comp I)	3
Approved Math Core	3
HIST 1301 (U.S. History I)	3
* EDUC/PSYC 1300 (Learning Frameworks) or Component Area Option 1	3
EDUC 2301 (Intro to Special Populations)	3
ENGL 1302 (English Comp II)	3
*Elective in Discipline**	3
Approved Life & Physical Sciences Core	3
*Approved Life & Physical Sciences Lab	1
HIST 1302 (Comp II)	3
GOVT 2305 (U.S. Hist II)	3
*Elective in Discipline**	3
*Elective in Discipline	3
Approved Life & Physical Sciences Core	3

Approved Life & Physical Sciences Lab	1
TECA 1354 (Child Growth and Development)	3
GOVT 2306 (Federal Govt.)	3
Language, Philosophy & Culture Core	3
Elective in Discipline	3
Approved Component Option Option 2	1
Approved Creative Arts Core	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.
Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT 4-8 Degree Requirements

Associate of Arts in Teaching (AAT) Education 4-8 Certification and Early Childhood-Grade 12

The Grade 4-8 and Early Childhood-Grade 12 Special Education degree satisfies the lower division requirements for a bachelor's leading to initial Texas teacher certification in all grades 4-8 certification areas and early childhood-12 special education. The Grade 4-8 Certification areas include: Generalist; ESL Generalist; English Language Arts and Reading; English Language Arts, Reading and Social Studies; Mathematics; Science; Mathematics and Science; Social Studies; other content area teaching fields/academic disciplines/interdisciplinary TBA. This degree is for students who want to teach grades EC-Grade 4 and higher. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

Subject	Semester Hours
EDUC 1301 (Intro to the Teaching Profession)	3
ENGL 1301 (Comp I)	3
Approved Math Core	3
HIST 1301 (U.S. History I)	3
* EDUC/PSYC 1300 (Learning Frameworks) or Component Area Option 1	3
EDUC 2301 (Intro to Special Populations)	3
ENGL 1302 (English Comp II)	3
MATH 1350 (Math for Teachers I)**	3
Approved Life & Physical Sciences Core	3
*Approved Life & Physical Sciences Lab	1
HIST 1302 (Comp II)	3
GOVT 2305 (U.S. Hist II)	3
MATH 1351 (Math for Teachers II)**	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
TECA 1354 (Child Growth and Development)	3
GOVT 2306 (Federal Govt.)	3
Language, Philosophy & Culture Core	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
Approved Component Option Area	3
Approved Creative Arts Core	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.
Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT EC-6 Degree Requirements

Associate of Arts in Teaching (AAT) Education Early Childhood-Grade 6 Generalists

The Early Childhood-Grade 6 degree satisfies the lower-division requirements for bachelor's degrees leading to initial Texas teacher certification. EC-6 Certification areas include: Generalist; Bilingual Generalist; ESL Generalist; other content area teaching field/academic disciplines/interdisciplinary TBA. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degrees.

Subject	Semester Hours
EDUC 1301 (Intro to the Teaching Profession)	3
ENGL 1301 (Comp I)	3
Approved Math Core	3
HIST 1301 (U.S. History I)	3
* EDUC/PSYC 1300 (Learning Frameworks) or Component Area Option 1	3
EDUC 2301 (Intro to Special Populations)	3
ENGL 1302 (English Comp II)	3
MATH 1350 (Math for Teachers I)**	3
Approved Life & Physical Sciences Core	3
*Approved Life & Physical Sciences Lab	1
HIST 1302 (Comp II)	3
GOVT 2305 (U.S. Hist II)	3
MATH 1351 (Math for Teachers II)**	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
TECA 1354 (Child Growth and Development)	3
GOVT 2306 (Federal Govt.)	3
Language, Philosophy & Culture Core	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
Approved Component Option Area	3
Approved Creative Arts Core	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Check with a GC academic advisor and the receiving university/college for recommended courses.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area. **Approved core selections for AAT are listed below.**

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I

ENGL 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 2301 Anatomy & Physiology I

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

Language, Philosophy, and Culture (3 hours)

ENGL 2351 Mexican-American Literature

HUMA 1301 Introduction to Humanities I

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Introduction to Theater

MUSI 1306 Music Appreciation

American History (6 hours)

HIST 1301 United States History I

HIST 1302 United States History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

COSC 1301 Introduction to Computing

PHED 1164 Introduction to Physical Fitness and Wellness

COSC 1336 Programming Fundamentals I

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business and Professional Communication

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

EDUC 1100 - Learning Framework

A study of the: research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Cross-listed as PSYC 1100. Only one of the cross-listed courses can be taken for credit.
-

EDUC 1300 - Learning Frameworks

A study of the (1) research and theory in the psychology of learning, cognition, and motivation, (2) factors that impact learning, and (3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Cross-listed as PSYC 1300. Only one of the cross-listed courses can be taken for credit.
-

EDUC 1301 - Introduction to the Teaching Profession

An enriched, integrated pre-service course and content experience that: (1) provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields; (2) provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations; (3) provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms; (4) course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Course includes 16 hours of field experience which must be in P-12 classrooms in public schools.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Students must have met TSI Reading & Writing requirements prior to enrolling
-

EDUC 2301 - Introduction to Special Populations

An enriched, integrated pre-service course and content experience that: (1) provides an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity, and equity with an emphasis on factors that facilitate learning; (2) provides students with opportunities to participate in early field observations of P-12 special populations; (3) course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Sixteen hours of field experience which must be with special populations in P-12 classrooms in public schools.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

EECT 1303 - Intro to Telecommunications

Study of new range of worldwide information movements using the latest advances in telecommunication systems, computers, applications, and equipment. How telecommunications and the computer will link and interconnect other information processing segments

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology)	3
Elective*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Elective*	3
*Mathematics/Life & Physical Science Core	3
SPCH 1311 (Introduction to Speech Communication)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Elective*	3
*Language, Philosophy, Culture/Creative Arts	3
CPMT 2345 (Computer Systems Troubleshooting)	3
CPMT 1349 (Computer Networking Technology)	3
Elective*	3
ITSC 1316 (Linux Installation and Configuration)	3
*Social & Behavioral Science Core	3

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309, ITSY 2317, ITNW 2355, ITSC 1342, ITSC 2325

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
ITSC 2339 (Personal Computer Help Desk)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1308 (Implementing and Supporting Client Operating Systems)	3
CPMT 1349 (Computer Networking Technology)	3
CPMT 2345 (Computer Systems Troubleshooting)	3
ITNW 2305 (Network Administration)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
EECT 1407 (Convergent Technologies)	4
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1349 (Computer Networking Technology)	3
ITNW 2305 (Network Administration)	3
CPMT 2345 (Computer Systems Troubleshooting)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

EECT 1407 - Convergent Technologies

A study of telecommunications convergency technologies including telephone, LAN, WAN, wireless, voice, video, and internet protocol.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission)	1
ELTN 1343 (Electrical Troubleshooting)	3
ENGL 1301 (Comp I)	3
ELPT 1341 (Motor Control)	3
ELPT 2343 (Electrical Systems Design)	3
ELPT 1291	3
ELPT 1345	2
ELPT 2319 (Programmable Logic Controllers)	3
ITSC 1309 (Integrated Software Apps)	3
MATH 1332 (Contemporary Mathematics)	3
ELPT 2165 (Practicum-Electrical and Power Transmission)	1
*Social & Behavioral Science Core	3
*Lang, Phil, Culture/Creative Arts Core	3
SPCH 1311 (Intro to Spch Comm)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Certificate – Residential Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2164 (Practicum Electrical and Power Transmission)	2

ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2337	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3

Certificate – Commercial Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission I)	1
ELTN 1343 (Electrical Troubleshooting)	3
ELPT 2343 (Electrical System Design)	3
ELPT 1341 (Motor Control)	3
ELPT 1345	3
ELPT 1357 (Industrial Wiring)	3
ELPT 2319 (Programmable Logic Controllers I)	3
ELPT 2165 (Practicum-Electrical and Power Transmission II)	1

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I
- BIOL 2301/2101 Anatomy & Physiology I
- BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ELPT 1215 - Electrical Calculations I.

This is an introduction to mathematical applications utilized to solve problems in the electrical field. Topics include fractions, decimals, percentages, simple equations, ratio and proportion, unit conversions, and applied geometry. Electrical calculations to solve DC and AC electrical circuits are included

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

ELPT 1221 - Introduction to Electrical Safety and Tools

This course covers safety rules and regulations. Includes the selection, inspection, use and maintenance of common tools for electricians.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

ELPT 1311 - Basic Electrical Theory

This course covers the basic theory and practice of electrical circuits. It includes calculations as applied to alternating and direct current, and covers electrical terminology, circuit analysis and mathematical formulas as applied to direct and alternating current circuits.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 3.0

Lab hours: 2.0

Advanced Manufacturing

Overview

Advanced manufacturing technology is used in automated fabrication machinery (robotics) that require skilled technicians to design, program, service and repair. Mechatronics refers to the combination of **mechanics** and **electronics**.

Our hands-on Advanced Manufacturing programs prepare you to go to work as an entry-level service technician, diagnosing, servicing and repairing automated systems. Advanced manufacturing skills are also an excellent supplement to related areas such as electronics and engineering.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303 (Technical Calculations)	3
EDUC 1300 (Learning Frameworks)	3
* CRIJ 1307 or HIST 1301	3
MATH 1332 (Contemporary Mathematics)	3
MCHN 1320 (Precision Tools and Measurements)	3
ELPT 1311 (Fundamentals of Electricity)	3
MCHN 1302 (Print Reading for Machine Trade)	3
ENGL 1301 (Composition I)	3
* ARTS 1301 or PHIL 1301	3
MCHN 1371 (Manufacturing Skills Standards)	3
QCTC 1343 Quality Assurance)	3
MCHN 1438 (Basic Machine Shop I)	4
MCHN 1454	4
ELPT 2319 (Programmable Logic Controllers I)	3
MCHN 1326 (Intro to Computer Aided Manufacturing)	3
INMT 1391 (Special Topics in Manufacturing Tech.)	3
ELPT 1441 (Motor Control)	4
INMT 2688 (Internship-Manufacturing Technology/ Technician)	6

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
TECH 1303 (Technical Calculations)	3
MCHN 1320 (Prec Tools & Measure)	3
ELPT 1311 (Basic Electrical Theory)	3
MCHN 1302 (Print Rdng for Mchn)	3
MCHN 1371 (MSSC Local Needs)	3
QCTC 1343 (Quality Assurance)	3
MCHN 1438 (Basic Mch Shop I)	4
ELPT 2319 (PLC'S I)	3
MCHN 1326 (CAM)	3
INMT 1391 (Spec Top in Mfg Technology)	3
ELPT 1441 (Motor Controls)	4
INMT 2688 (Internship Mfg Tech)	6
	41

Mechatronics Technician Certificate

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
WLDG 1421 (Intro to Welding Fundamentals)	4

HART 1407 (Refrigeration Principles)	4
DFTG 1405 (Technical Drafting)	4

16

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

ELPT 1311 - Fundamentals of Electricity

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 2.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3

ELPT 2164 (Practicum Electrical and Power Transmission)	1
ELTN 1343 (Electrical Troubleshooting)	3
ENGL 1301 (Comp I)	3
ELPT 1341 (Motor Control)	3
ELPT 2343 (Electrical Systems Design)	3
ELPT 1291	3
ELPT 1345	2
ELPT 2319 (Programmable Logic Controllers)	3
ITSC 1309 (Integrated Software Apps)	3
MATH 1332 (Contemporary Mathematics)	3
ELPT 2165 (Practicum-Electrical and Power Transmission)	1
*Social & Behavioral Science Core	3
*Lang, Phil, Culture/Creative Arts Core	3
SPCH 1311 (Intro to Spch Comm)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Certificate – Residential Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2164 (Practicum Electrical and Power Transmission)	2
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2337	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3

Certificate – Commercial Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission I)	1
ELTN 1343 (Electrical Troubleshooting)	3
ELPT 2343 (Electrical System Design)	3
ELPT 1341 (Motor Control)	3
ELPT 1345	3
ELPT 1357 (Industrial Wiring)	3
ELPT 2319 (Programmable Logic Controllers I)	3

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ELPT 1325 - National Electric Code I

This is an introductory study of the National Electric Code (NEC) for those employed in the field requiring knowledge of the Code. Emphasis will be on wiring design, protection, methods, and materials; and equipment for general use, and basic calculations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ELPT 1329 - Residential Wiring

Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ELPT 1341 - Motor Control

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations. Identify practical applications of jogging and plugging; describe the types of motor braking and their operating principles; explain different starting methods for large motors; and demonstrate proper troubleshooting methods on circuits using wiring and schematic diagrams

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ELPT 1357 - Industrial Wiring

This course covers wiring methods used for industrial installations. It includes motor circuits, raceway and bus way installations, proper grounding techniques, and associated safety procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Advanced Manufacturing

Overview

Advanced manufacturing technology is used in automated fabrication machinery (robotics) that require skilled technicians to design, program, service and repair. Mechatronics refers to the combination of **mechanics** and **electronics**.

Our hands-on Advanced Manufacturing programs prepare you to go to work as an entry-level service technician, diagnosing, servicing and repairing automated systems. Advanced manufacturing skills are also an excellent supplement to related areas such as electronics and engineering.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303 (Technical Calculations)	3
EDUC 1300 (Learning Frameworks)	3
* CRIJ 1307 or HIST 1301	3
MATH 1332 (Contemporary Mathematics)	3
MCHN 1320 (Precision Tools and Measurements)	3
ELPT 1311 (Fundamentals of Electricity)	3
MCHN 1302 (Print Reading for Machine Trade)	3

ENGL 1301 (Composition I)	3
* ARTS 1301 or PHIL 1301	3
MCHN 1371 (Manufacturing Skills Standards)	3
QCTC 1343 Quality Assurance)	3
MCHN 1438 (Basic Machine Shop I)	4
MCHN 1454	4
ELPT 2319 (Programmable Logic Controllers I)	3
MCHN 1326 (Intro to Computer Aided Manufacturing)	3
INMT 1391 (Special Topics in Manufacturing Tech.)	3
ELPT 1441 (Motor Control)	4
INMT 2688 (Internship-Manufacturing Technology/ Technician)	6

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
TECH 1303 (Technical Calculations)	3
MCHN 1320 (Prec Tools & Measure)	3
ELPT 1311 (Basic Electrical Theory)	3
MCHN 1302 (Print Rdnng for Mchn)	3
MCHN 1371 (MSSC Local Needs)	3
QCTC 1343 (Quality Assurance)	3
MCHN 1438 (Basic Mch Shop I)	4
ELPT 2319 (PLC'S I)	3
MCHN 1326 (CAM)	3
INMT 1391 (Spec Top in Mfg Technology)	3
ELPT 1441 (Motor Controls)	4
INMT 2688 (Internship Mfg Tech)	6
	41

Mechatronics Technician Certificate

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
WLDG 1421 (Intro to Welding Fundamentals)	4
HART 1407 (Refrigeration Principles)	4
DFTG 1405 (Technical Drafting)	4
	16

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

ELPT 1441 - Motor Control

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission)	1
ELTN 1343 (Electrical Troubleshooting)	3
ENGL 1301 (Comp I)	3
ELPT 1341 (Motor Control)	3
ELPT 2343 (Electrical Systems Design)	3
ELPT 1291	3
ELPT 1345	2
ELPT 2319 (Programmable Logic Controllers)	3
ITSC 1309 (Integrated Software Apps)	3
MATH 1332 (Contemporary Mathematics)	3
ELPT 2165 (Practicum-Electrical and Power Transmission)	1
*Social & Behavioral Science Core	3
*Lang, Phil, Culture/Creative Arts Core	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Certificate – Residential Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2164 (Practicum Electrical and Power Transmission)	2
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2337	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3

Certificate – Commercial Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission I)	1
ELTN 1343 (Electrical Troubleshooting)	3
ELPT 2343 (Electrical System Design)	3
ELPT 1341 (Motor Control)	3
ELPT 1345	3
ELPT 1357 (Industrial Wiring)	3
ELPT 2319 (Programmable Logic Controllers I)	3
ELPT 2165 (Practicum-Electrical and Power Transmission II)	1

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ELPT 2164 - Practicum Electrical & Power Transmission

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Restrictions:

- Requires 8 lab hours
-

ELPT 2164 - Practicum-Electrical and Power Transmission

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Restrictions:

- Requires 8 lab hours
-

ELPT 2305 - Motors and Transformers.

This course focuses on the operation of single- and three-phase motors and transformers. It includes transformer banking, power factor correction, and protective devices. Also included are lessons on three-phase power concepts, transformer and motor connections, transformer and motor metering, and transformer and motor troubleshooting theory

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [ELPT 1311](#) - Basic Electrical Theory

ELPT 2319 - Programmable Logic Controllers I

Fundamental concepts of programmable logic controllers, principles of operation, and numbering systems as applied to electrical controls.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Advanced Manufacturing

Overview

Advanced manufacturing technology is used in automated fabrication machinery (robotics) that require skilled technicians to design, program, service and repair. Mechatronics refers to the combination of **mechanics** and **electronics**.

Our hands-on Advanced Manufacturing programs prepare you to go to work as an entry-level service technician, diagnosing, servicing and repairing automated systems. Advanced manufacturing skills are also an excellent supplement to related areas such as electronics and engineering.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303 (Technical Calculations)	3
EDUC 1300 (Learning Frameworks)	3
* CRIJ 1307 or HIST 1301	3
MATH 1332 (Contemporary Mathematics)	3
MCHN 1320 (Precision Tools and Measurements)	3
ELPT 1311 (Fundamentals of Electricity)	3
MCHN 1302 (Print Reading for Machine Trade)	3
ENGL 1301 (Composition I)	3
* ARTS 1301 or PHIL 1301	3
MCHN 1371 (Manufacturing Skills Standards)	3
QCTC 1343 (Quality Assurance)	3
MCHN 1438 (Basic Machine Shop I)	4
MCHN 1454	4
ELPT 2319 (Programmable Logic Controllers I)	3
MCHN 1326 (Intro to Computer Aided Manufacturing)	3
INMT 1391 (Special Topics in Manufacturing Tech.)	3
ELPT 1441 (Motor Control)	4

[INMT 2688](#) (Internship-Manufacturing Technology/ Technician) 6

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
TECH 1303 (Technical Calculations)	3
MCHN 1320 (Prec Tools & Measure)	3
ELPT 1311 (Basic Electrical Theory)	3
MCHN 1302 (Print Rdng for Mchn)	3
MCHN 1371 (MSSC Local Needs)	3
QCTC 1343 (Quality Assurance)	3
MCHN 1438 (Basic Mch Shop I)	4
ELPT 2319 (PLC'S I)	3
MCHN 1326 (CAM)	3
INMT 1391 (Spec Top in Mfg Technology)	3
ELPT 1441 (Motor Controls)	4
INMT 2688 (Internship Mfg Tech)	6
	41

Mechatronics Technician Certificate

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
WLDG 1421 (Intro to Welding Fundamentals)	4
HART 1407 (Refrigeration Principles)	4
DFTG 1405 (Technical Drafting)	4
	16

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

ELPT 2319 - Programmable Logic Controllers I

Fundamental concepts of programmable logic controllers, principles of operation and numbering systems as applied to electrical controls.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission)	1
ELTN 1343 (Electrical Troubleshooting)	3
ENGL 1301 (Comp I)	3
ELPT 1341 (Motor Control)	3
ELPT 2343 (Electrical Systems Design)	3
ELPT 1291	3
ELPT 1345	2
ELPT 2319 (Programmable Logic Controllers)	3
ITSC 1309 (Integrated Software Apps)	3
MATH 1332 (Contemporary Mathematics)	3
ELPT 2165 (Practicum-Electrical and Power Transmission)	1
*Social & Behavioral Science Core	3
*Lang, Phil, Culture/Creative Arts Core	3
SPCH 1311 (Intro to Spch Comm)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Certificate – Residential Electrical Technology

Subject	Semester Hours
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ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2164 (Practicum Electrical and Power Transmission)	2
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2337	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3

Certificate – Commercial Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission I)	1
ELTN 1343 (Electrical Troubleshooting)	3
ELPT 2343 (Electrical System Design)	3
ELPT 1341 (Motor Control)	3
ELPT 1345	3
ELPT 1357 (Industrial Wiring)	3
ELPT 2319 (Programmable Logic Controllers I)	3
ELPT 2165 (Practicum-Electrical and Power Transmission II)	1

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ELPT 2337 - Electrical Planning and Estimating

Planning and estimating for residential, commercial, and industrial wiring systems. Includes a variety of electrical techniques.

Upon completion, students will be able to:

- List estimating procedures.
- Formulate material and labor costs.
- Identify types of bids.
- Calculate cost adjustments and job costs.
- Demonstrate the use of estimating forms.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

ELPT 2343 - Electrical Systems Design

This is a course in electrical design of commercial and/or industrial projects, including building layout, types of equipment, placement, sizing of electrical equipment, and all electrical calculations according to the requirements of the National Electrical Code (NEC).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Prerequisite: ELPT 2325 or approval of department chair.
-

ELPT 2350 - Maintenance Electrician Exam Review

General requirements and fundamentals of electrical maintenance with emphasis on wiring methods and electrical theory. Determine clearance of electrical installations; analyze overcurrent protection and determine the proper overcurrent protection required for electrical installations; perform voltage drop calculations; determine motor loads; and troubleshoot, replace, and explain installation procedures of lighting fixtures including fluorescent lamps and ballasts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ELPT 2364 - Practicum - Electrical and Power Transmission

This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, College, and student. The plan relates the workplace training and experiences to the students general and technical course of study. The guided external experiences may be paid or unpaid. The course may be repeated if topics and learning outcomes vary.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Restrictions:

- Prerequisite: Approval of department chair.
 - 24 Hours of Lab Required
-

ELTN 1343 - Electrical Troubleshooting

Maintenance, operation, troubleshooting, and repair of circuits of various residential, commercial, and industrial electrical systems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ELTN 1391 - Special Topics in Electrician and Power Transmission

Topics address recently identified current events, skills, knowledge, and-or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. The course was designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Emergency Medical Services-EMT/Paramedicine

Overview

The Emergency Medical Service programs at Grayson College offer three levels of EMS education: the EMT Certificate of Completion, the paramedic Certificate of Completion and the Associate of Applied Science in Paramedicine.

At each program level, students gain additional knowledge and skills to enable them to function in clinical and field settings with physicians, nurses, firefighters and other healthcare professionals. In the classroom, students learn about anatomy and physiology, the pathophysiology of diseases, traumatic injuries, pharmacology and cardiac care of all age groups. Students acquire practical and field skills through laboratory practice, simulation, clinical experience in hospitals and experience with ambulance services. EMS personnel must be at least 18 years of age and have a high school diploma or GED.

Successful completion of an EMS Program will prepare the student for the National Registry Certification exam, to obtain state licensure, and to work as an Emergency Medical Technician or Paramedic.

Core Performance Standards/Physical and Mental Capabilities

EMS personnel must have the ability to communicate verbally via telephone and radio equipment, ability to lift, carry and balance up to 125 pounds (250 pounds with assistance); ability to interpret written, oral and diagnostic instructions; ability to use good judgment and remain calm in high-stress situations; ability to work effectively in an environment with loud noises and flashing lights; ability to function efficiently throughout an entire work shift; ability to calculate weight and volume ratios and read small print, under life threatening time constraints; ability to read and understand English language manuals and road maps; ability to accurately discern street signs and address numbers; ability to interview patient, family members and bystanders; ability to document, in writing, all relevant information in prescribed format in light of legal ramifications of such; ability to converse in English with coworkers and hospital staff as to status of patients. EMS personnel should possess good manual dexterity, with ability to perform all tasks related to highest quality patient care. Ability to bend, stoop and crawl on uneven terrain and ability to withstand varied environmental conditions such as extreme heat, cold and moisture is vital. The ability to work in low light, confined spaces and other dangerous environments is required.

Certificate Degree Options

Emergency Medical Technician – Certificate of Completion

The EMT must demonstrate competency in handling emergencies utilizing all Basic Life Support equipment and skills in accordance with all behavioral objectives in the Department of Transportation/ EMT curriculum. The course includes classroom, laboratory, hospital and field instruction which shall include supervised experiences in the emergency department and with a licensed EMS provider and other appropriate settings. This course can be completed in one semester.

Paramedic – Certificate of Completion

The minimum curriculum includes all content required by the current national paramedic education standards and competencies as defined by the Department of Transportation which address the following areas: roles and responsibilities of the paramedic; well-being of the paramedic; illness and injury prevention; medical/ legal issues; ethics; general principles of pathophysiology; pharmacology; venous access and medication administration; therapeutic communications; life span development; patient assessment; airway management and ventilation, including endotracheal intubation; and trauma. The course includes classroom, laboratory, hospital and field instruction which shall include supervised experiences in the emergency department, critical care areas, and with a licensed EMS provider and other appropriate settings.

Paramedic – Associate of Applied Science

The Associate of Applied Science degree is identical to the Certificate of Completion for the Paramedic, but also includes the general education coursework required to be awarded the 60 hour Associate of Applied Science degree in Paramedicine.

Admissions Requirements

Detailed information about the programs is provided in Application Packets, available by sending an email request to rathfonb@grayson.edu. The applicant should request the EMT application or Paramedic application. Completion of this packet is required for all applicants.

General Admission Guidelines

Students applying to the EMS program must first apply for admission to Grayson College and submit all required documentation to the Admissions Offices. See GC Catalog "General Academic Policies, Admissions" for more information. Admission to the college does not guarantee admission to the EMS programs. In addition to the admission requirements of Grayson College, the applicant must be 18 years of age and possess a high school diploma or GED 180 days post course completion.

To be considered for acceptance into the EMS program, applicants must submit application to the EMS Education Program, with required documentation attached, by the deadline posted in the EMS Application Packet. Applications will not be accepted until all required documentation is attached. Incomplete applications will be returned to the student without consideration.

Application Documentation Required of All EMS Applicants:

1. **Completed application for admission to EMT or Paramedic program** (available by emailing rathfonb@grayson.edu)
2. **Completed verification statement** (in packet)
3. **Pre-Entrance Physical Exam and Health Statement** completed by approved medical professional
4. **Copy of transcripts** from all previously attended colleges or universities. Turn in to the GC Admissions Office official transcripts from all colleges previously attended. Turn in to the EMS program unofficial transcripts.
5. **Documentation of immunization*** as follows:
 - Tetanus/Diphtheria/Pertussis (Tdap) - One dose of the tetanus/diphtheria/pertussis (Tdap) immunization within the last 10 years

- Measles, Mumps, Rubella (MMR) (Immunization or blood test proving immunity) - If born after Jan. 1, 1957, must have proof of two doses of the MMR vaccine administered on or after the first (1st) birthday and at least 30 days apart or proof of serologic immunity
- Varicella (Chickenpox) (Immunization or blood test proving immunity) - Series of two Varicella vaccines at least 30 days apart or proof of serologic immunity. History of the disease is not acceptable.
- Hepatitis B (Immunization or blood test proving immunity) - Series of three Hepatitis B vaccines or proof of serologic immunity. This series takes 6 months to complete.
- Influenza Vaccine - Annual influenza immunization as recommended by the CDD in the fall of each year.

Due to compliance with clinical facility requirements and the Texas Department of State Health Services rule, GC Health Science programs may not waive immunization requirements for any reason. If immunizations are not complete, application to the program must be delayed.

Copies of records from physician's offices, public health department, public schools, other colleges and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Additional Application Documentation Required for Paramedic Candidates:

1. Copy of college or university transcript showing completed, EMT Basic course work. If not completed at a college or university, attach copy of Course Completion Certificate showing classroom, clinical, and ambulance hours.
2. Copy of current EMT certificate or license issued by one of the following: State of Texas or National Registry of EMTs.
3. Copy of current CPR for Basic Life Support Provider card issued by the American Heart Association.
4. Documentation of FISDAP Paramedic Entrance Exam Scores.

Note: It is the responsibility of the student to maintain EMT and CPR for Basic Life Support Provider certifications throughout the paramedic course to remain eligible for clinical practice.

Selection and Acceptance Procedure

EMT Certificate of Completion Selection and Acceptance:

Registration in EMT courses is by permission only. Once all EMT admission requirements have been submitted to the EMS Department, an email will be sent giving permission to enroll in EMT courses. Applications for Emergency Medical Technician courses will be reviewed for the required documentation listed above. Applicants who submit all required documents before the last date of registration for the semester will be granted permission to register. Applications will not be accepted after the last date of registration.

Paramedic Selection and Acceptance:

Applications for Paramedic courses received by the published deadline will be reviewed for the required documentation listed above by the EMS Admissions Committee during the five days immediately following the deadline. Only complete applications will be considered for selection.

Applications will be prioritized for selection to the Paramedic Course Waiting List using the applicant's score on the FISDAP entrance exam.

Applicants with the highest score will be selected for the waiting list first. In the case where applicants having equal scores must be chosen for limited space availability, the selection will be made by the EMS Admissions Committee and/or Program Director.

Applicants will be notified regarding selection or non-selection by telephone or email, or both, at least five (5) days prior to the scheduled orientation.

Should more applications be received than seats available, the waiting list will be maintained until the first class day. Any remaining applications will be destroyed.

Final Acceptance Requirements

1. Attend a scheduled mandatory orientation day on campus.
 - EMT orientation is scheduled for the first class day
 - Paramedic orientation is published in the Paramedic Application Packet
2. Pass a urine drug screen (at the student's expense and completed as scheduled through a GC approved company).
3. Pass a criminal background check (at the student's expense and completed as scheduled through a GC approved company).
4. Documentation of clinical readiness (Completion of immunizations and required medical exam).

Eligibility for Certification or Licensure

Eligibility for Certification with the National Registry of Emergency Medical Technicians (NREMT)

The National Registry does not issue a permit to work or license to practice, and does not warrant job performance of applicants and EMS professionals.

- No individual is eligible to apply for certification or recertification unless compliance with all NREMT rules and standards are demonstrated.
- The individual must truthfully complete and submit an application in the form provided by the NREMT and shall provide all additional information as requested.
- The individual must at all times be eligible for and not barred from practice as an Emergency Medical Technician under the laws of any state EMS licensing or authorizing agency.
- An individual convicted of a felony or any other crime directly related to public health or the provision of emergency medical service, including DUI, will be reviewed for eligibility for certification and recertification under policies outlined in the NREMT's Felony Policy.
- The NREMT reserves the right to withhold or revoke certification from an individual who has failed to pay for services rendered.

Eligibility for Certification with the Texas Department of State Health Services

All initial EMS applicants are required to submit their fingerprints through the Fingerprint Applicant Services of Texas (FAST) for Texas/FBI criminal history check. A person shall be disqualified from eligibility to acquire an EMS certification if the applicant is convicted of or placed on deferred adjudication community supervision or deferred disposition for an offense listed in Code of Criminal Procedure, Article 42.12, Sections 3g(a)(1)(A) through (H) as follows: (1) murder; (2) capital murder; (3) indecency with a child; (4) aggravated kidnapping; (5) aggravated sexual assault; (6) aggravated robbery; (7) substance abuse offenses, as described in Health and Safety Code, Chapter 481, for which punishment is increased under: (a) Health and Safety Code, §481.140, regarding the use of a child in the commission of an offense; or (b) Health and Safety Code, §481.134(c), (d), (e) or (f), regarding an offense committed within a drug free zone, if it is shown that the defendant has been previously convicted of an offense for which punishment was increased under one of those subsections; (8) sexual assault; (9) an offense, other than an offense committed on or after September 1, 2009, for which the person is subject to register as a sex offender under Code of Criminal Procedure, Chapter 62.

Transfer of EMT Coursework

Students who completed EMT coursework at a college or university other than GC must submit official transcripts from each college or university previously attended to the GC Office of Admissions and Records, and submit a copy (official or unofficial) of the transcript attached to the EMS Admissions Application. EMT coursework completed via continuing education or a training site other than a college or university must be approved by the Director of EMS Education for credit award. Minimum documentation required for the approval process includes a copy of the initial course completion certificate showing classroom, clinical, and ambulance hours.

Contact information regarding program accreditation

The Grayson College EMS program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (www.coaemsp.org) with the goal "to prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels."

Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoAEMSP)
8301 Lakeview Parkway, Suite 111-213
Rowlett, Texas
214-703-8445
www.coemsp.org

Commission on Accreditation of Allied Health Education Programs
25400 U.S. Highway 19 North, Suite 158
Clearwater, FL 33763
727-210-2350
www.caahep.org

Outcomes

National Registry (NREMT) Pass Rate (2012-2014 average) 86%

Program Retention Rate (2012-2014 average) 63%

Job Placement Rate (from Texas Higher Education Coordinating Board (2012-2014 average) 100%

Certificate Degree Requirements

Certificate in Paramedicine

The Certificate of Completion in Paramedicine follows the National EMS Education Standards (2009) curriculum which assists students in acquiring the knowledge and skills to function as beginning practitioners in emergency medical services at the advanced level. Students receive classroom instruction and supervised hospital clinical and coordinated ambulance clinical experience. A grade of "C" or better is necessary in each EMSP course to progress. Upon completion of this program, students will receive a *Certificate of Completion in Paramedicine Award* from Grayson College and may be eligible to sit for the National Registry examination to become certified at the Advanced EMT (AEMT) or Paramedic levels. The Nationally Certified AEMT may be eligible to apply for EMT/Intermediate licensure with the Texas Department of State Health Services. The Nationally Certified Paramedic may be eligible to apply for EMT/Paramedic licensure with the Texas Department of State Health Services. The Department of State Health Services and/or the National Registry of EMTs may deny certification to individuals who have been convicted of a misdemeanor and/or felony.

Sequence	Course to be taken:	Semester Hours
1	EMSP 1338 (Intro to Advanced Practice)	3
2	EMSP 2206 (Emergency Pharmacology)	2
3	EMSP 2137 (Emergency Procedures)	1
4	EMSP 2434 (Medical Emergencies)	4
5	EMSP 1356 (Patient Assessment and Airway Management)	3
6	EMSP 1161 (Clinical-Emergency Medical Tech.)	1
7	EMSP 2330 (Special Populations)	3
8	EMSP 2444 (Cardiology)	4
9	EMSP 2237 (Emergency Procedures)	2
10	EMSP 1147 (Pediatric Life Support)	1
11	EMSP 1355 (Trauma Management)	3
12	EMSP 1149 (Trauma Life Support)	1
13	EMSP 2135 (Adv. Cardiac Life Support)	1
14	EMSP 2162 (Clinical-Emergency Medical Tech.)	1
15	EMSP 2563 (Clinical-Emergency Medical Tech.)	5
16	EMSP 2143 (Assessment Based Management)	1
		36

Capstone Requirement: All students must pass the capstone exam to complete the capstone requirement for graduation.

Note: EMSP courses listed in each semester must be taken simultaneously and must be taken in the sequence identified in the degree plan.

The GC Certificate of Completion in Paramedicine requires that the last 22 hours of EMSP courses be successfully completed at Grayson College.

Certification of Completion - EMT

The Certificate of Completion- EMT follows the National EMS Education Standards (2009) curriculum which assists students in acquiring the knowledge and skills to function as beginning practitioners in emergency medical services at the basic level. Students receive classroom instruction and supervised hospital clinical and coordinated ambulance clinical experience. A grade of "C" or better is necessary in each EMSP course to progress. Upon completion of this program, students will receive a Certificate of Completion-EMT from Grayson College and may be eligible to sit for the National Registry examination to become certified at the EMT level. The Nationally Certified EMT may be eligible to apply for EMT/Basic licensure with the Texas Department of State Health Services. The Texas Department of State Health Services and/or the National Registry of EMTs may deny certification to individuals who have been convicted of a misdemeanor and/or felony.

Individuals can complete the twelve (12) hours of EMSP coursework to be eligible to test for the NREMT certificate exam. In order to achieve the level one certificate of completion, all 19 hours must be completed.

Subject	Semester Hours
First 8 week session	
ENGL 1301	3
EMSP 1501 (Emergency Medical Tech.)	5
EMSP 2305 (EMS Operations)	3
BIOL 2404 (Anatomy and Physiology)	4
<hr/>	
Second 8 week session	
EMSP 1460 (Clinical Emergency Medical Tech.)	4
<hr/>	
19	

Capstone Requirement: All students must pass the capstone exam to complete the capstone requirement for graduation.

Note: EMSP courses listed in each semester must be taken simultaneously and must be taken in the sequence identified in the degree plan.

*The Nationally Certified EMT may be eligible to apply for EMT/Basic licensure with the Texas Department of State Health Service.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

AAS Degree Requirements

Associate of Applied Science - Paramedicine

The Associate of Applied Science degree in Paramedicine follows the National EMS Standards (2009) curriculum which assists students in acquiring the knowledge and skills to function as beginning practitioners in emergency medical services at the advanced level. Students receive classroom instruction and supervised hospital clinical and coordinated ambulance clinical experience in the emergency care of patients. A grade of "C" or better is necessary in each EMSP course to progress. Upon successful completion of this program, students will receive an *Associate of Applied Science Degree in Paramedicine* and may be eligible to sit for the National Registry examination to become certified or licensed Paramedics. The National Certified Paramedic who has earned an associate degree in Paramedicine may be eligible to apply for Licensed Paramedic with the Texas Department of State Health Services. The Department of State Health Services and/or the National Registry of EMTs may deny certification or licensure to individuals who have been convicted of a misdemeanor and/or felony.

Sequence	Subject	Semester Hours
1	BIOL 2404 (Anatomy and Physiology)	4
2	ENGL 1301 (Comp I)	3
3	SPCH 1311 , 1315 or 1321	3
4	Elective	2

5	Social/Behavior Science Core	3
6	Lang, Phil, Culture/Creative Arts	3
7	Math, Life & Physical Science Core	3
8	AA/AS COA Core	3
9	EMSP 1338 (Intro to Advanced Practice)	3
10	EMSP 1356 (Patient Assessment and Airway Management)	3
11	EMSP 1355 (Trauma Management)	3
12	EMSP 2206 (Emergency Pharmacology)	2
13	EMSP 1149 (Trauma Life Support)	1
14	EMSP 2137 (Emergency Procedures)	1
15	EMSP 1161 (Clinical-Emergency Medical Technology/Technician)	1
16	EMSP 2444 (Cardiology)	4
17	EMSP 2434 (Medical Emergencies)	4
18	EMSP 2330 (Special Populations)	3
19	EMSP 2237 (Emergency Procedures)	2
20	EMSP 1147 (Pediatric Life Support)	1
21	EMSP 2135 (Advanced Cardiac Life Support)	1
22	EMSP 2162 (Clinical-Emergency Medical Technology/Technician)	1
23	EMSP 2563 (Clinical-Emergency Medical Technology/Technician)	5
24	EMSP 2143 (Assessment Based Management)	1
		60

Capstone Requirement: All students must pass the capstone exam to complete the capstone requirement for graduation.

Note: EMSP courses listed in each semester must be taken simultaneously and must be taken in the sequence identified in the degree plan.

The Associate of Applied Science Degree in Paramedicine requires that the last 22 hours of EMSP courses be successfully completed at Grayson College.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

EMSP 1147 - Pediatric Life Support

Theory and skills necessary for the management of pediatric or neonatal emergencies. The student will manage a pediatric or neonatal patient in accordance with the American Heart Association (AHA) Pediatric Advanced Life Support (PALS) guidelines. Prerequisites: Documentation of college readiness in reading and math, pre-entrance physical exam and health statement, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Health Care Providers from American Heart Association, current EMT/Basic certification from National Registry of EMTs or Texas Department of State Health Services

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Must be taken in sequence as listed in degree plan.
-

EMSP 1149 - Trauma Life Support

Theory and skills necessary for the management of trauma emergencies. The student will manage a trauma patient in accordance with the requirements of the National Association of EMTs (NAEMT) PreHospital Trauma Life Support (PHTLS) guidelines.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1161 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry

Upon completion, students will be able to:

- See Course Description

Grade Basis: P
Credit hours: 1.0
Lab hours: 6.0
Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1338 - Introduction to Advanced Practice

Fundamentals elements associated with emergency medical serviced to include preparatory practices, pathophysiology, medication administration, and related topics. The student will describe the roles and responsibilities of advanced EMS personnel within the EMS system; apply concept of pathophysiology and pharmacology to the assessment and management of emergency patients; administer medications; employ effective communication; interpret medical/legal issues; demonstrate ethical behaviors; and discuss well-being of the paramedic

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1355 - Trauma Management

Knowledge and skills in the assessment and management of patients with traumatic injuries. The student will integrate the pathophysiological assessment findings to formulate a field impression; implement the treatment plan for the trauma patient; and integrate multiple determinants of trauma conditions into clinical care.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1356 - Patient Assessment and Airway Management

Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation. The student will perform a history and comprehensive physical exam on various patient populations; establish and/or maintain a patent airway; and demonstrate oxygenation and ventilation of a patient; differentiate respiratory distress, failure and arrest; and interpret results of monitoring devices.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1460 - Clinical Emergency Medical Technology/Technician

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among political economic, environmental, social and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. Upon completion, students will be able to:

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 4.0

Lab hours: 24.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1501 - Emergency Medical Technician

Preparation for Certification as an Emergency Medical Technician (EMT).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 4.0

Restrictions:

- Must be taken in sequence as listed in degree plan.
-

EMSP 2135 - Advanced Cardiac Life Support

Theory and skills necessary for the management of a cardiovascular emergencies as specified by the American Heart Association (AHA) guidelines. The student will manage a cardiovascular patient according to the American Heart Association (AHA) Advanced Cardiac Life Support (ACLS) guidelines.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2137 - Emergency Procedures

Application of emergency procedures. The student will integrate theory and skills mastered in other courses; and demonstrate comprehensive problem-solving techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2143 - Assessment Based Management

A Capstone course covering comprehensive, assessment based patient care management. Includes specific care when dealing with pediatric, geriatric, and special-needs patients. The student will integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2162 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2206 - Emergency Pharmacology

Utilization of medications in treating emergency situations. The student will utilize knowledge of pharmacological concepts to demonstrate safe administration of medications in emergency settings.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0
Lab hours: 1.0
Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2237 - Emergency Procedures

Application of emergency procedures. The student will integrate theory and skills mastered in other courses; and demonstrate comprehensive problem-solving techniques

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 1.0
Lab hours: 2.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2305 - EMS Operations

Knowledge and skills to safely manage multi-casualty incidents and rescue situations; utilize air medical resources; identify hazardous materials and other specialized incidents.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- Documentation of college readiness in reading and math.
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2330 - Special Populations

Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations to include neonatology, pediatrics, geriatrics, and other related topics. The student will integrate pathophysiology assessment findings to formulate a field impression, implement a treatment plan for diverse patients of special populations; and integrate multiple determinants of such conditions into clinical care.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2434 - Medical Emergencies

Knowledge and skills in the assessment and management of patients with medical emergencies, including medical overview, neurology, gastroenterology, immunology, pulmonology, urology, hematology, endocrinology, toxicology, and other related topics. The student will integrate pathophysiology assessment finding to formulate a field impression; implement a treatment plan for the medical patient; and integrate multiple determinants of medical condition into clinical care.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2444 - Cardiology.

Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation. The student will integrate the pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the cardiac patient.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2563 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 5.0

Lab hours: 18.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

English

Overview

For students interested in pursuing an English degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

ENGL 1301 - Composition I

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- The course requires a lab component
 - College readiness in reading and writing required.
-

ENGL 1302 - Composition II

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ENGL 1301](#) - Composition I

Restrictions:

- The course requires a lab component
-

ENGL 2307 - Creative Writing I

Practical experience in the techniques of imaginative writing. May include fiction, nonfiction, poetry, screenwriting, or drama.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ENGL 2311 - Technical and Business Writing

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2322 - British Literature I

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2323 - British Literature II

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2327 - American Literature I

A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2328 - American Literature II

A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2332 - World Literature I

A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2333 - World Literature II

A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2341 - Bible as Literature

The study of one or more literary genres including, but not limited to, poetry, fiction, drama and film.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ENGL 2351 - Mexican-American Literature

Survey of Mexican-American/Chicano/Latino literature, including fiction, non-fiction, poetry, and drama. Special emphasis on literary modes specific to the genre such as magical realism and history of the literature. Course is taught in the English language.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

Engineering

Overview

For students planning to pursue a Engineering major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in Engineering** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AS Degree Requirements

Associate of Science - Engineering

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Subject	Semester Hours
* EDUC/PSYC 1300 or Component Area Option 1	3
*Language, Phil, & Culture Core	3
ENGL 1301 (Composition I)	3
HIST 1301 (United States History I)	3
MATH 2312 (Pre-Calculus)	3
MATH 2413 (Calculus I)	4
ENGL 1302 (Composition II)	3
*Creative Arts Core	3
HIST 1302 (United States History II)	3
ENGR 1201 (Introduction to Engineering)	3
ENGR 2301 (Engineering Mechanics-Statistics)	3
MATH 2414 (Calculus II)	4
GOVT 2305 (Federal Government)	3
PHYS 2325 (University Physics I)	3
PHYS 2125 (University Physics Laboratory I)	1
ENGR 2302 (Engineering Mechanics-Dynamics)	3
GOVT 2306 (Texas Government)	3
*Social & Behavioral Sciences Core	3
PHYS 2326 (University Physics II)	3
PHYS 2126 (University Physics Laboratory II)	1
MATH 2320 (Differential Equations)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCL 1301 Introductory Sociology
SOCL 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

ENGR 1201 - Introduction to Engineering

This is an introduction to the engineering profession with emphasis on technical communication and team-based engineering design.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra
-

ENGR 1304 - Engineering Graphics I

Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data, and fundamentals of computer graphics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [MATH 1314](#) - College Algebra
-

ENGR 2301 - Engineering Mechanics – Statics

Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PHYS 2125](#) - University Physics Laboratory I
 - [PHYS 2325](#) - University Physics I
-

ENGR 2302 - Engineering Mechanics - Dynamics

Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGR 2301](#) - Engineering Mechanics – Statics

Restrictions:

- College readiness in reading and math required.
-

English as a Second Language

ESOL 0310 - Beginning ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ENGL 1311 - Intermediate ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0312 - Advanced ESOL Oral Communication

(CIP # 32.0108.55 12). Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0315 - Advanced ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts. (This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0320 - Beginning ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0321 - Intermediate ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0322 - Advanced ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0325 - Advanced ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.
-

ESOL 0330 - Beginning Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0331 - Intermediate Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0332 - Advanced Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0335 - Advanced Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a NCBO course, which is nonsemester-length, non-course competency-based option and intervention.
-

ESOL 0340 - Beginning Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 3.0

ESOL 0341 - Intermediate Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers
Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ESOL 0342 - Advanced Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.
Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ESOL 0345 - Advanced Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.
Upon completion, students will be able to:

- See Course Description

Grade Basis: AL
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 3.0

Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.
-

Viticulture and Enology

Overview

The grape and wine industry is rapidly growing in Texas and across the United States. The Viticulture and Enology Program at Grayson is designed to prepare students for a variety of career opportunities including starting a commercial vineyard and winery and is part of the **Business & Industry Career Pathway**. Most courses are offered as hybrid with a combination of Internet and weekend classroom instruction. This accommodates students who cannot commit to traditional weekday classes without sacrificing hands-on learning. The Viticulture and Enology Program maintains a 3-acre vineyard, an extensive wine laboratory, and an instructional winery. All serve as an excellent learning resource for students.

The Viticulture and Enology Program offers the convenience of Internet instruction combined with weekend class meetings. A typical 3 credit hour course meets two weekends (Saturday & Sunday) a semester and the remainder of the course material is delivered through Canvas, Grayson's Internet teaching platform. This format accommodates those who cannot commit to traditional weekday classes without sacrificing hands-on winemaking and grape growing.

The Viticulture and Enology Program is housed in the T.V. Munson Viticulture and Enology Center on Grayson College's West Extension of campus. The T.V. Munson Center contains a large classroom, an extensive wine laboratory, and an instructional winery. Just down the hill from the T.V. Munson Center is the T.V. Munson Memorial Vineyard which is planted to 3 acres of various grape varieties including over 60 of the original varieties bred by T.V. Munson, and other hybrid and vinifera grapes. Both the vineyard and the winery serve as an excellent learning tool for students in the Viticulture and Enology Program. The Viticulture Program and Enology Program also offers one-day outreach seminars and workshops at various locations across the state. These programs focus topics of specific interest to the grape and wine industry, as well as programming that's geared toward new and future industry members. Upcoming outreach programs can be found on the Viticulture and Enology Program Continuing Education page.

Course Requirements

The Viticulture & Enology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Degree in Viticulture and Enology requires that you meet TSI requirements.

Facilities and Location

As an instructional site, the T.V. Munson Center's 5,000-square-foot facility houses a library for research documents and historic memorabilia; classroom and office space; workroom facilities for processing grape plants, juice and wine. Additionally, the Center has classrooms for the delivery of lectures, seminars, workshops and demonstrations. As a repository and research site, the Viticulture and Enology Center houses an extensive set of written materials related to viticulture and enology. Among these documents are historical materials written about, and by, T.V. Munson regarding the breeding of grapes native to this area of the world. The GC Viticulture & Enology Center rests on five acres of land on the College's West Campus—Extension. The Center's hilltop view overlooks the T.V. Munson Memorial Vineyard and is a short one-hour drive from the DFW Metroplex.

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
FDST 1323 (Principles of Viticulture I)	3
*Social & Behavioral Science Core	3
FDST 1370 (Grapevine Biology)	3
ENGL 1301 (Composition I)	3
*Mathematics/Life & Physical Core	3
FDST 2320 (Principles of Viticulture II)	3
MRKG 1191 (Wine Marketing)	1
*Lang, Phil, Culture/Creative Arts Core	3
*Mathematics/Life & Physical Science Core	3
*Social and Behavioral Science Core	3
FDST 1320 (Principles of Enology I)	3
*Lang, Phil, Culture/Creative Arts Core	3
* SPCH 1311 , 1315 , or 1321	3
FDST 2371 (Grape and Wine Chemistry)	3
FDST 2433 (Wine Types and Sensory Evaluation)	4
FDST 2319 (Principles of Enology II)	3
FDST 2330 (Analysis of Must and Wine)	3
*Elective	5
FDST 2286 (Internship-Food Science)	2
*Social & Behavioral Science Core	3

*Elective must be approved by program coordinator.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Enology Certificate

Subject	Semester Hours
FDST 1320 (Principles of Enology I)	3
FDST 2371 (Grape and Wine Chemistry)	3
*Mathematics/Life & Physical Science Core	3
FDST 2319 (Principles of Enology II)	3
FDST 2330 (Analysis of Must and Wine)	3
FDST 2286 (Internship-Food Science)	2

Viticulture Certificate

Subject	Semester Hours
FDST 1323 (Principles of Viticulture I)	3
FDST 1370 (Grapevine Biology)	3
*Mathematics/Life & Physical Science Core	3
FDST 2320 (Principles of Viticulture II)	3
FDST 2371 (Grape and Wine Chemistry)	3
FDST 2286 (Internship-Food Science)	2

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

FDST 1270 - Wine Laws and Regulations

An overview of federal, state, and local regulations pertaining to wine production and sales. Topics include: state and federal winery permits, wine production, taxation, reporting, labeling, and sales and distribution.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

FDST 1320 - Principles of Enology I

Designed for training students entering the field of viticulture and enology in the history and development of the wine industry; factors affecting wine quality; winemaking operations including harvest, scheduling, crushing, fermentation, and record keeping.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 1323 - Principles of Viticulture I

Designed for training students entering the field of viticulture and enology in the basic principles underlying pruning, training, grafting, and propagation of vines; climatic requirements; utilization of crop; economic factors affecting choices of vineyard type and location.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 1370 - Grapevine Biology

The study of grapevine biology including taxonomy, distribution, morphology, physiology, genetics, and improvement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 2286 - Internship – Food Science

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lab hours: 8.0

FDST 2319 - Principles of Enology II

Continuation of FDST 1320. Designed for training students entering the field of viticulture and enology in safety, sanitation procedures, analysis and operation of enology facility equipment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Prerequisites:

- [FDST 1320](#) - Principles of Enology I
-

FDST 2320 - Principles of Viticulture II

Continuation of FDST 1323. Designed for training students entering the field of viticulture and enology in the economic and scientific principles of vineyard management practices including irrigation, mineral and carbohydrate nutrition, flower development and fruit set, viral and fungal diseases, and insect control.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Prerequisites:

- [FDST 1323](#) - Principles of Viticulture I
-

FDST 2330 - Analysis of Must and Wine

Designed for training students entering the field of viticulture and enology in the principles and practices of wine and fermented beverage analysis including tests for free and total SO₂, volatile and titratable acidity, pH, Brix and total alcohol.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I
-

FDST 2335 - Winegrowing Regions of the World

A viticulture review of the management systems used in all of the leading wine regions of the world. To include Chablis, Mersault, Montrachet, California, Australia, Chile, Argentina, Medoc, Graves Sauternes, St. Emilion, Tuscany, Mosel, Rhinegau, Loire, Alsace, and how the practices of the regions are best used in Texas and Oklahoma. Formal wine tastings will be conducted each day to determine the strong and or weak components of each wine.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I
-

FDST 2371 - Grape and Wine Chemistry

An overview of the chemistry of grapes and wine with a focus on the impact of viticultural and enological factors. Topics include acids, sugars, phenolics, fermentation end- products, additives, winemaking units and calculations, and soil chemistry.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 2433 - Wine Types and Sensory Evaluation

A study of the major types of wines with an emphasis on the development of sensory evaluation techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Geography

Overview

For students planning to pursue a Geography major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

GEOG 1302 - Cultural Geography

Introduction to the concepts which provide a foundation for continued study of geography. Includes the different elements of natural environment as related to human activities, modes of living and map concepts. The first semester emphasizes physical geography and the second semester emphasizes cultural geography. This particular course focuses on the development of regional variations of culture. Topics include the distribution of races, religions, and languages. Aspects of material culture are also included. Emphasis is on origins and diffusion.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GEOG 1303 - World Regional Geography

Study of major world regions with emphasis on prevailing conditions and developments, including emerging conditions and trends, and the awareness of diversity of ideas and practices to be found in those regions. Course content may include one or more regions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GEOG 2312 - Economic Geography

Analytical study of the historical development of particular economic distributions as they relate to social, cultural, political, and physical factors. Includes critical inquiry into the reasons for location of various types of economic activity, production, and marketing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Cross-listed as ECON 2311. Only one of the cross-listed courses can be taken for credit.
-

Geology

Overview

For students planning to pursue a Geology major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
*Life and Physical Sciences Core	1
Science Lab	3
* EDUC 1300/PSYC 1300 or Component Area Option	3
*Mathematics Core	3
* HIST 1301 or 1302	3
ENGL 1302 (Composition II)	3
*Life and Physical Sciences Core	3
Science Lab	1
* ARTS 1301 , DRAM 1310 or MUSI 1306	3
*Component Area Option	3
* HIST 1301 or 1302	3
* GOVT 2305 or 2306	3
*Biological & Physical Science Elective	3
Science Lab	1
*Biological & Physical Science Elective	3
Science Lab	1
*Language, Philosophy & Culture	3
* GOVT 2305 or 2306	3
*Biological & Physical Science Elective	3
Science Lab	1
*Biological & Physical Science Elective	3
Science Lab	1
* GEOG 1302 or 1303	3

Note: All sciences must be science major courses. Students are encouraged to select electives that meet the graduation requirement of the senior institution.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:
HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

GEOL 1101 - Earth Sciences Laboratory I

Survey of physical and historical geology, astronomy, meteorology, oceanography, and related sciences. An analysis of minerals, rocks, maps, weather, climate and landforms.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [GEOL 1301](#) - Earth Sciences I

Restrictions:

- College readiness in reading required.
-

GEOL 1103 - Physical Geology Laboratory

Principles of physical and historical geology. Study of the earth's composition, structure, and internal and external processes. Includes the geologic history of the earth and the evolution of life. Laboratory exercises related to minerals, rocks, topographic maps, contours, and geologic structures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [GEOL 1303](#) - Physical Geology

Restrictions:

- College readiness in reading required.
-

GEOL 1104 - Historical Geology Laboratory

Principles of physical and historical geology. Study of the earth's composition, structure, and internal and external processes. Includes the geologic history of the earth and the evolution of life. Laboratory exercises related to geologic time, relative dating, evolution and Earth's history.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [GEOL 1304](#) - Historical Geology

Restrictions:

- College readiness in reading required.
-

GEOL 1105 - Environmental Science Laboratory

The earth as a habitat. Interrelationships between humans and the environment. Geologic factors in urban and regional land use planning. Laboratory exercises related to minerals, rocks, pollution, land use and waste management.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [GEOL 1305](#) - Environmental Science

Restrictions:

- College readiness in reading required.
-

GEOL 1301 - Earth Sciences I

Survey of physical and historical geology, astronomy, meteorology, oceanography, and related sciences.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

GEOL 1303 - Physical Geology

Principles of physical geology. Study of the earth's composition, structure, and internal and external processes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

GEOL 1304 - Historical Geology

Principles of historical geology. Study of the geologic history of the earth and the evolution of life.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

GEOL 1305 - Environmental Science

The earth as a habitat. Interrelationships between humans and the environment. Geologic factors in urban and regional land use planning

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

Government

Overview

For students interested in pursuing an Government degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

GOVT 2107 - Federal and Texas Constitutions

A study of the United States and state constitutions, with special emphasis on Texas. Pre-requisite: By permission only. Enrollment limited to students who have already completed a minimum of 6 SCH of government courses but have not satisfied the statutory requirement for study of the federal and state constitutions. Ensures compliance with TEC §51.301.

Upon completion, students will be able to:

- Explain the origin and development of constitutional democracy in the united states. Explain the origin and development of the Texas constitution. Analyze the similarities and differences between the current U.S. and Texas constitutions.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

GOVT 2305 - Federal Government

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

Upon completion, students will be able to:

- Explain the origin and development of constitutional democracy in the United States.
- Demonstrate knowledge of the federal system.
- Describe separation of powers and checks and balances in both theory and practice.
- Demonstrate knowledge of the legislative, executive, and judicial branches of the federal government. Evaluate the role of public opinion, interest groups, and political parties in the political system.
- Describe the rights and responsibilities of citizens Analyze issues and policies in U.S. politics.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GOVT 2306 - Texas Government

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas.

Upon completion, students will be able to:

- Explain the origin and development of the Texas constitution.
- Describe state and local political systems and their relationship with the federal government.
- Describe separation of powers and check and balances in both theory and practice in Texas.
- Demonstrate knowledge of the legislative, executive, and judicial branches of Texas government.
- Evaluate the role of public opinion, interest groups, and political parties in Texas.
- Analyze the state and local election process.
- Identify the rights and responsibilities of citizens.
- Analyze issues, policies and political culture of Texas.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GOVT 2389 - Terrorism

Terrorism and political violence. This elective academic co-op course introduces students to terrorism and the war against terrorism. Particular emphasis is placed on the citizen's response to emerging public policy at the local, state, and national levels. Students will apply concepts learned in class to specific scenarios applicable to the public sector in order to address the urgent safety and security concerns facing society. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line managers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	3
HAMG 1340 (Hospitality Legal Issues)	3
HAMG 1221 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
*Social/Behavioral Science Core	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 1213 (Front Office Procedures)	3
*HAMG, PSTR, CHEF or FDST Elective	
* SPCH 1311 or 1321	3
CHEF 2231 (Advanced Food Preparation)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
*Lang, Phil, Culture/Creative ARTS CORE	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	3
CHEF 1314 (A La Carte Cooking)	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	2
CHEF 1301 (Basic Food Preparation)	3
HAMG 1221 (Introduction to Hospitality Industry)	2
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301 (Fundamentals of Baking)	3
HAMG 1319 (Computers in Hospitality)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1345 (International Cuisine)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 2331 (Advanced Pastry Shop)	3
HAMG 1324 (Hospitality Human Resources Management)	3
CHEF 1310 (Garde Manger)	3
RSTO 1304 (Dining Room Service)	3
CHEF 1302 (Principles of Healthy Cuisine)	3
CHEF 1314 (A La Carte Cooking)	3
*Social/Behavioral Science Core	3
CHEF 1164 (Practicum or Field Experience)	1
IFWA 1210 (Nutrition and Menu Planning)	2

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
HAMG 2301 (Principles of Food and Beverage Operations)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
HAMG 2332 (Hospitality Financial Management)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
HAMG 1213 (Front Office Procedures)	2

HAMG 2167 (Practicum or Field Experience)	1
HAMG 2305 (Hospitality Management and Leadership)	3

Culinary Arts Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1345 (International Cuisine)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1302	3
HAMG 1319 (Computers in Hospitality)	3
* IFWA 1210 or BIOL 1322	2
CHEF 1314 (A La Carte Cooking)	3
RSTO 1304 (Dining Room Service)	3
PSTR 2331 (Advanced Pastry Shop)	3
CHEF 1310 (Garde Manger)	3
CHEF 1164 (Practicum or Field Experience)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Basic Culinary Skills Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
PSTR 1301 (Fundamentals of Baking)	3
* EDU 1300/PSYC 1300	3
CHEF 1345 (International Cuisine)	3
CHEF 1310 (Garde Manger)	3
CHEF 2231 (Advanced Food Preparation)	2
RSTO 1304 (Dining Room Service)	3
POFT 1120 (Job Search Skills)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Catering and Event Planning Certificate

Subject	Semester Hours
TRVM 2333 (Applied Convention)	3
CHEF 1205* (Sanitation and Safety)	2
TRVM 1327 (Special Events Design)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 2307 (Catering)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1310 (Garde Manger)	3
FDST 2433 (Wine Types and Sensory Eval)	4
POFT 1120 (Job Search Skills)	1

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

HAMG 1213 - Front Office Procedures

Functions of front office operations as they relate to customer service. Includes a study of front office interactions with other departments in the lodging operation. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 3.0

Lab hours: 1.0

HAMG 1221 - Introduction to Hospitality Industry

Introduction to the elements of the hospitality industry. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

HAMG 1319 - Computers in Hospitality

An introduction to computers and their relationship as an information system to the hospitality industry. The course includes an overview of industry-specific software. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

HAMG 1324 - Hospitality Human Resources Management

Principles and procedures of human resource management in the hospitality industry. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 1340 - Hospitality Legal Issues

A course in legal and regulatory requirements that impact the hospitality industry. Topics include: Occupational Safety and Health Administration (OSHA), labor regulations, tax laws, tip reporting, franchise regulations, and product liability laws. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2167 - Practicum (or Field Experience) - Hospitality Administration/Management, General

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 12.0

HAMG 2301 - Principles of Food and Beverage Operations

An introduction to food and beverage management in various hospitality environments. Emphasizes cost controls from procurement to marketing and sales. Examines forecasting, menu planning and pricing, logistical support, production, purchasing, and quality assurance. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2305 - Hospitality Management and Leadership

An overview of management and leadership in the hospitality industry with an emphasis on management philosophy, policy formation, communications, motivation, and team building. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2307 - Hospitality Marketing and Sales

Identification of the core principles of marketing and sales and their impact on the hospitality industry. 3 credit hours.
Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2332 - Hospitality Financial Management

Methods and applications of financial management within the hospitality industry. Primary emphasis on sales accountability, internal controls, and report analysis. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2337 - Hospitality Facilities Management

Identification of building systems, facilities and sustainability management, and security and safety procedures. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Heating, Air Conditioning & Refrigeration Technology

Overview

Grayson College's Heating, Air Conditioning and Refrigeration Technology program offers three levels of training and skills. Many students start with the Technician Apprentice Certificate, then build on those skills with the Technician Certificate. The highest level is the Associate of Applied Science degree. Grayson College's courses teach the skills recommended by area employers who work in the industry. The program is offered on the Main Campus in the Career and Technology Center, which is equipped with the latest technology.

Programs of study include:

- Technician Apprentice Certificate (16 hours)
- Technician Certificate (32 hours)
- Associate of Applied Science Degree (60 hours)

Course Requirements

Grayson College requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Interested students are strongly encouraged to get advised and follow a degree plan, as some courses are not available every semester.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive exit exam prior to graduation.

Local Employers

Alpine, Worthington Air, Tyson Foods, Alverson Refrigeration

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
HART 1407 (Refrigeration Principles)	4
HART 1401 (Basic Electricity for HVAC)	4
ENGL 1301 (Composition I)	3
DFTG 1325 (Blueprint Reading)	3
*MATH 1314, 1332 , or 1342	3
HART 1445 (Gas and Electric Heating)	4
HART 2442 (Commercial Refrigeration)	4
*Social/Behavioral Science	3
* SPCH 1311 , 1315 , or 1321	3
HART 2436 (Air Conditioning Troubleshooting)	4
*Lang, Phil, Culture/Creative Arts	3
*Math/Life & Physical Science Core	4
HART 2449 (Heat Pumps)	4
HART 2445 (Air Conditioning Systems Design)	4
DFTG 1317 (Architectural Drafting-Residential)	3
BUSG 2309 (Small Business Management)	3
HART 1441 (Residential Air Conditioning)	4
	14

HART 1445, HART 2442, HART 2436, HART 2445 and HART 1441 are taught on a rotating basis. Two classes every 3rd semester.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Certificate Degree Requirements

Technician Apprentice

Subject	Semester Hours
HART 1407 (Refrigeration Principles)	4
HART 1401 (Basic Electricity for HVAC)	4
HART*	4
HART*	4
DFTG 1325 (Blueprint Reading)	3

*Any two of the six (6) remaining HART courses. HART 1445, HART 2442, HART 2449, HART 2436, HART 2445 and HART 1441 are taught on a rotating basis. Two classes every 3rd semester.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Technician

Subject	Semester Hours
HART 1407 (Refrigeration Principles)	4
HART 1401 (Basic Electricity for HVAC)	4
HART*	4
HART*	4
DFTG 1325 (Blueprint Reading)	3
HART*	4
HART*	4
HART*	4
HART*	4

*All six (6) of the remaining HART courses.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCI 1301 Introduction to Sociology
SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

HART 1401 - Basic Electricity for HVAC

Principles of electricity as required by HVAC technicians including proper use of test equipment, A/C and D/C circuits, and component theory and operation. Advanced electrical instruction and skill building in installation and servicing of air conditioning and refrigeration equipment including detailed instruction in motors and power distribution, motors, motor controls and application of solid state devices. The student will exhibit knowledge of basic principles of electricity, electrical current, circuitry, and A/C devices; apply Ohm's law to electrical calculations; perform electrical continuity, voltage and current tests with appropriate meters and demonstrate electrical safety.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 4.0

HART 1407 - Refrigeration Principles

An introduction to the refrigeration cycle, basic thermodynamics, heat transfer, temperature/pressure relationship, safety, refrigeration containment, and refrigeration components. The student will identify the components and explain the application and operation of the basic refrigeration cycle; explain theories of thermodynamics and heat transfer; demonstrate proper application and use of tools, test equipment, and safety procedures; and demonstrate accepted refrigeration applications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 4.0

HART 1441 - Residential Air Conditioning

A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems. Demonstrate systems applications; implement and demonstrate industry accepted refrigerant charging procedures; demonstrate air conditioning system installation procedures; and demonstrate component and part diagnostics and replacement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 1445 - Gas and Electric Heating

A study of the procedures and principles used in servicing heating systems including gas fired and electric furnaces. The student will identify different types of gas furnaces; identify and discuss component operation of gas furnaces; service and troubleshoot gas furnaces; perform safety inspections on gas and electric furnaces; identify unsafe operation of gas furnaces; identify and discuss component operation of electric furnaces; and service and troubleshoot electric furnaces.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
- [HART 1407](#) - Refrigeration Principles

HART 2436 - Air Conditioning Troubleshooting

An advanced course in application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2442 - Commercial Refrigeration

Theory of and practical application in the maintenance of commercial refrigeration; high, medium, and low temperature applications and ice machines. The student will explain and apply high, medium, and low temperature systems operation, and explain and apply ice machine and packaged refrigeration system operation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2445 - Air Conditioning Systems Design

A study of the properties of air and results of cooling, heating, humidifying or dehumidifying; heat gain and heat loss calculations including equipment selection and balancing the air system. The student will calculate heat loss and heat gain; design a complete duct system; size heating and cooling equipment of the structure; perform a load calculation using Manual J.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2449 - Heat Pumps

A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, air flow, and other topics related to heat pump systems. The student will be able to explain a reverse cycle system; list the mechanical and electrical components for the heat pump operation; and explain the operation of heat pump modes including cooling, heating, defrost, emergency heat, and auxiliary heat mode. Identify and explain different methods of accomplishing defrost; charge a system correctly in the heating and cooling mode; troubleshoot electrical and mechanical components;

perform tests for adequate air flow; and determine balance point and co-efficiencies of performance (C.O.P.); and define attributes of geothermal heat pump systems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
- [HART 1407](#) - Refrigeration Principles

General Studies

Overview

For students interested in pursuing a degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** or the **Associate of Science Degree in General Studies** in a desired Pathway at Grayson College. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA/AS Degree Requirements

Associate of Science/Associate of Arts

Subject	Semester Hours
CAO	3
ENGL 1301	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	3
Mathematics Core	3
Academic Elective*	1
Communication Core	3
History Core	3
Life & Physical Science Core	3
Science Lab	3
CAO	3
Social & Behavioral Sciences Core	1
GOVT 2305 or 2306	1
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
Creative Arts Core	3
GOVT 2305 or 2306	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
<hr/>	
	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

*To receive a General Studies Associate of Arts Degree students must choose six hours from the following as their academic electives (Courses cannot be repeated for Credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2351), GEOG 1303, SPAN 2311 / 2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:
HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

HIST 1301 - United States History I

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

Upon completion, students will be able to:

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on this period of United States history.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

History

Overview

For students interested in pursuing an History degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

HIST 1301 - United States History I

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

Upon completion, students will be able to:

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on this period of United States history.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 1302 - United States History II

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and

migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Upon completion, students will be able to:

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on this period of United States history.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2301 - Texas History

A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas.

Upon completion, students will be able to:

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on Texas history.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2311 - Western Civilization I

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from human origins to the 17th century. Themes that should be addressed in Western Civilization I include the cultural legacies of Mesopotamia, Egypt, Greece, Rome, Byzantium, Islamic civilizations, and Europe through the Middle Ages, Renaissance, and Reformations.

Upon completion, students will be able to:

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on this period of western history.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2312 - Western Civilization II

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism.

Upon completion, students will be able to:

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on this period of western history.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2321 - World Civilization I

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures through the 15th century. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems and trans-regional networks of exchange. The course emphasizes the development, interaction and impact of global exchange.

Upon completion, students will be able to:

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on this period of world history.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2322 - World Civilization II

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the 15th century to the present. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include maritime exploration and transoceanic empires, national/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. The course emphasizes the development, interaction and impact of global exchange.

Upon completion, students will be able to:

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on this period of world history.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Office and Computer Tech

Overview

Today's office environment demands proficiency with the internet and a variety of software applications. The ability to quickly and easily learn new programs is a necessity to perform tasks efficiently and accurately.

The **Associate of Applied Science Degree** is a 60-hour online program designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions.

The **Administrative Assistant Certificate** is a 42-hour online program that will prepare the student for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office.

The **Medical Administrative Certificate** is a 42-hour online program that will prepare the student to work in a variety of settings throughout the healthcare industry including hospitals, physician offices, insurance companies, government agencies, and companies providing services to the medical community. Areas of study include medical coding, terminology, ethics, and electronic health records management.

The **Accounting Office Support Certificate** is a 36-hour online program that will prepare the student for a career in the accounting field.

The **Applications Software Specialist Certificate** is a 30-hour online program that concentrates on computer software. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Workforce Preparation). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office & Computer Technology

Subject	Semester Hours
ENGL 1301 (Composition I)	3
POFT 1301 (Business English)	3
ACNT 1303 (Introduction to Accounting I)	3
*Social and Behavioral Science Core	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
* POFT 2303 or ARTC 1325	3
*Math/Life and Physical Science Core	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
*Elective	3
POFT 2331 (Administrative Project Solutions)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
*Elective	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
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POFI 1301 (Computer Applications I)	3
POFT 1301 (Business English)	2
POFT 2303 (Speed and Accuracy Building)	2
POFI 2301 (Word Processing)	3
ACNT 1303 (Introduction to Accounting I)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ACNT 1304 (Introduction to Accounting II)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 2312 (Business Correspondence & Communication)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFT 2331 (Administrative Project Solutions)	3

Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
POFT 2303 (Speed and Accuracy Building)	2
ACNT 1303 (Introduction to Accounting I)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2331 (Administrative Project Solutions)	3
ITSW 1307 (Introduction to Database)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
ACNT 1313 (Computerized Accounting Applications)	3
*Elective	3

Applications Software Specialist Certificate

Subject	Semester Hours
POFT 2303 (Speed and Accuracy Building)	3
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ARTC 1325 (Introduction to Computer Graphics)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFI 1301 (Computer Applications I)	3

Medical Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
HITT 1305 (Medical Terminology I)	3
POFT 2303 (Speed and Accuracy Building)	3
POFI 2301 (Word Processing)	3

POFI 1301 (Computer Applications I)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1304 (Introduction to Spreadsheets)	3
HITT 1341 (Coding and Classification Systems)	3
POFT 2331 (Administrative Project Solutions)	3
HITT 1311 (Health Information Systems)	3
HITT 2346 (Advanced Medical Coding)	3
HITT 1353 (Legal and Ethical Aspects of Health Information)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFM 1317 (Medical Administrative Support)	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

HITT 1305 - Medical Terminology I

(FALL ONLY) Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HITT 1311 - Health Information Systems

(SUMMER ONLY) Introduction to health IT standards, health-related data structures, software applications, and enterprise architecture in health care and public health.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HITT 1341 - Coding and Classification Systems

(SPRING ONLY) Fundamentals of coding rules, conventions, and guidelines using clinical classification systems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HITT 1353 - Legal and Ethical Aspects of Health Information

(SUMMER ONLY) Concepts of privacy, security, confidentiality, ethics, health care legislation, and regulations relating to the maintenance and use of health information.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HITT 2346 - Advanced Medical Coding

Advanced concepts of ICD and CPT coding rules, conventions, and guidelines in complex case studies. Investigation of government regulations and changes in health care reporting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Health Science Related Courses

HPRS 1201 - Introduction to Health Professions

An overview of roles of various members of the health care system, educational requirements, and issues affecting the delivery of health care. (Internet Class Only)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- (Internet Class Only)
-

HPRS 1209 - Interpretation of Laboratory Results

An overview of roles of various members of the health care system, educational requirements, and issues affecting the delivery of health care. (Internet Class Only)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- (Internet Class Only)
-

HPRS 1303 - End of Life Issues

Grief, loss, and end of life issues. Includes instruction in preparing caregivers to function in settings where communication skills are used to give psychosocial support to persons and their families at the end of life.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2300 - Pharmacology for Health Professions

This 3 credit hour course is an intermediate level course for students preparing for a career in healthcare and healthcare professionals involved in the administration of medications or the care of clients receiving medications. Areas of study include drug classifications, actions, therapeutic uses, adverse effects, methods of administration, client education, and calculation of dosages

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2301 - Pathophysiology

Study of the pathology and general health management of diseases and injuries across the life span. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2302 - Medical Terminology

A study of medical terminology, word origin, structure, and application with an emphasis on building a professional vocabulary required for employment within the allied health care field.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2321 - Medical Law and Ethics for Health Professionals

Principles, procedures, and regulations governing the legal and ethical relationships among physicians, patients, and health care professionals. Includes current ethical issues related to the various healthcare professions and patient confidentiality.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (U.S. History I)	3
ENGL 1301 (Composition I)	3
MATH 1324 (Math for Business I) or higher	3
MATH 1325 (Math for Business II) or higher	3
SPCH 1321 (Business & Professional Communication)	1
HIST 1302 (U.S. History II)	3
ENGL 1301 (Composition II)	3
*Component Area Option	3
ACCT 2301 (Principles of Financial Acct.)	3
HUMA 1301 (Intro to Humanities I) or Huma 1302 (Intro to Humanities II)	3
GOVT 2305 (Federal Government)	1
GEOL 1301 (Earth Sciences)	1
GEOL 1101 (Earth Sciences Lab I)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2301 (Principles of Financial Acct.)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2302 (Principles of Managerial Accounting)	3
GOVT 2306 (Texas Government)	3
ARTS 1301 or DRAM or MUSI 1306	3
BIOL 1308 (Biol for Non-Science Majors)	3
BIOL 1108 (Biol Lab for Non-Science Majors)	1
	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3

BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
ACNT 1304 (Intro to Accounting II)	3
BGMT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1321 or SPCH 1311	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
*Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Business and Society - Capstone)	3
*Language, Philosophy & Culture Core	3
<hr/>	
	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304 (Intro to Accounting II)	3
BMGT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1311 or 1321	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resource Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
Capstone Exam	
<hr/>	
	31

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
Certificate Capstone Exam	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302 (Principles of Retailing)	3
MRKG 1311 (Principles of Marketing)	3
MRKG 2333 (Principles of Selling)	3
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOVI 1301 Introductory Sociology
SOVI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

HRPO 2301 - Human Resources Management

Behavioral and legal approaches to the management of human resources in organizations.

Upon completion, students will be able to:

- Understand behavioral and legal approaches to the management of human resources in organizations.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HRPO 2305 - Human Resources Information Systems

An introduction to the pre-packaged Human Resource Information Systems (HRIS) programs available. Identifies issues involved in creating, implementing, and maintaining human resources systems and the benefits of human resources systems. Examines key models such as staffing, employee development, position management, total compensation, outsourcing options, and professional development.

Upon completion, students will be able to:

- Identify issues involved in creating, implementing, and maintaining human resources systems and the benefits of human resources systems

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Humanities

Overview

For students interested in pursuing an Humanities degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

HUMA 1301 - Introduction to the Humanities I

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HUMA 1302 - Introduction to the Humanities II

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create. Part of the course involves visiting museums and attending performances in our local and larger (DFW) areas.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission)	1
ELTN 1343 (Electrical Troubleshooting)	3
ENGL 1301 (Comp I)	3
ELPT 1341 (Motor Control)	3
ELPT 2343 (Electrical Systems Design)	3
ELPT 1291	3
ELPT 1345	2
ELPT 2319 Programmable Logic Controllers)	3
ITSC 1309 (Integrated Software Apps)	3
MATH 1332 (Contemporary Mathematics)	3

ELPT 2165 (Practicum-Electrical and Power Transmission)	1
*Social & Behavioral Science Core	3
*Lang, Phil, Culture/Creative Arts Core	3
SPCH 1311 (Intro to Spch Comm)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Certificate – Residential Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2164 (Practicum Electrical and Power Transmission)	2
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2337	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3

Certificate – Commercial Electrical Technology

Subject	Semester Hours
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 2337	3
ELPT 1311 (Basic Electrical Theory)	3
ELTN 1391 (Special Topics in Electrician and Power Transmission)	3
DFTG 1325 (Blueprint Reading)	3
ELPT 2305 (Motors and Transformers)	3
ELPT 1325 (National Electric Code I)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2164 (Practicum Electrical and Power Transmission I)	1
ELTN 1343 (Electrical Troubleshooting)	3
ELPT 2343 (Electrical System Design)	3
ELPT 1341 (Motor Control)	3
ELPT 1345	3
ELPT 1357 (Industrial Wiring)	3
ELPT 2319 (Programmable Logic Controllers I)	3
ELPT 2165 (Practicum-Electrical and Power Transmission II)	1

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

IEIR 1312 - Distribution Systems

Fundamentals of distribution systems including single phase and three phase systems, grounding, ground fault protection, and the National Electrical Safety Code. Identify the components of a single phase and three phase system; describe grounding methods and procedures; and demonstrate knowledge of electrical codes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 2.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	3
HAMG 1340 (Hospitality Legal Issues)	3
HAMG 1221 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
*Social/Behavioral Science Core	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 1213 (Front Office Procedures)	3
*HAMG, PSTR, CHEF or FDST Elective	
* SPCH 1311 or 1321	3
CHEF 2231 (Advanced Food Preparation)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
*Lang, Phil, Culture/Creative ARTS CORE	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	3
CHEF 1314 (A La Carte Cooking)	

15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	2
CHEF 1301 (Basic Food Preparation)	3
HAMG 1221 (Introduction to Hospitality Industry)	2
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301 (Fundamentals of Baking)	3
HAMG 1319 (Computers in Hospitality)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1345 (International Cuisine)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 2331 (Advanced Pastry Shop)	3
HAMG 1324 (Hospitality Human Resources Management)	3
CHEF 1310 (Garde Manger)	3
RSTO 1304 (Dining Room Service)	3
CHEF 1302 (Principles of Healthy Cuisine)	3
CHEF 1314 (A La Carte Cooking)	3
*Social/Behavioral Science Core	3
CHEF 1164 (Practicum or Field Experience)	1
IFWA 1210 (Nutrition and Menu Planning)	2

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
HAMG 2301 (Principles of Food and Beverage Operations)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
HAMG 2332 (Hospitality Financial Management)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3

HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
HAMG 1213 (Front Office Procedures)	2
HAMG 2167 (Practicum or Field Experience)	1
HAMG 2305 (Hospitality Management and Leadership)	3

Culinary Arts Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1345 (International Cuisine)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1302	3
HAMG 1319 (Computers in Hospitality)	3
* IFWA 1210 or BIOL 1322	2
CHEF 1314 (A La Carte Cooking)	3
RSTO 1304 (Dining Room Service)	3
PSTR 2331 (Advanced Pastry Shop)	3
CHEF 1310 (Garde Manger)	3
CHEF 1164 (Practicum or Field Experience)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Basic Culinary Skills Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
PSTR 1301 (Fundamentals of Baking)	3
* EDU 1300/PSYC 1300	3
CHEF 1345 (International Cuisine)	3
CHEF 1310 (Garde Manger)	3
CHEF 2231 (Advanced Food Preparation)	2
RSTO 1304 (Dining Room Service)	3
POFT 1120 (Job Search Skills)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Catering and Event Planning Certificate

Subject	Semester Hours
TRVM 2333 (Applied Convention)	3
CHEF 1205* (Sanitation and Safety)	2
TRVM 1327 (Special Events Design)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 2307 (Catering)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1310 (Garde Manger)	3
FDST 2433 (Wine Types and Sensory Eval)	4
POFT 1120 (Job Search Skills)	1

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

IFWA 1210 - Nutrition and Menu Planning

Application of principles of nutrition in planning menus for the food service industry.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

Computer Technology

IMED 1301 - Introduction to Multimedia

Basic skills for preparing graphic and projected presentations. Preparation and presentation of multimedia training session developed by students using popular multimedia software packages

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ARTC 1325](#) - Introduction to Computer Graphics
 - [ITSC 1305](#) - PC Operating Systems
-

IMED 1305 - Multimedia Authoring I

Introduction in multimedia development with an icon based development tool. Topic includes interactivity, branching, navigation, and interface/information design using industry standard authoring software.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

IMED 1316 - Internet Web Page Design I

Planning, designing, and deploying a Web Site from the World Wide Web perspective. Topics include but are not limited to HTML, XHTML, SGML, VRML, CGI, and JAVA scripts. (RM)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

IMED 1341 - Interface Design

Skill development in the interface design process including selecting interfaces relative to a project's content and delivery system. Emphasis on aesthetic issues such as iconography, screen composition, colors. And typography

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Web Based Small Business Development

Overview

Helping small businesses develop their presence in the electronic marketplace is the focus of this unique program. Students learn the skills necessary to manage a small business, oftentimes a home-based business. This program includes courses in Web Design Tools, Interface Design, Advanced Database, and Project Analysis & Design as well as courses in Marketing, Economics, Business, Computer Science, and communication.

Students can complete three levels of training:

- Web Based Small Business Foundation Certificate (18 credit hours)
- Web Based Small Business Development Certificate (34 credit hours)
- Web Based Small Business Development Associate of Applied Science Degree (60 credit hours)

AAS Degree Requirements

Associate of Applied Science Degree

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3

IMED 1341 (Interface Design)	3
BUSG 1304 (Financial Literacy)	2
BUSI 1301 (Business Principles)	3
ENGL 1301 (Composition I)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1302 (E-Business Management)	3
MATH 1314 (College Algebra)	3
MRKG 1302 (Principles of Retailing)	3
IMED 1316 (Internet Web Page Design I)	3
ACNT 1303 (Intro to Accounting I) or ACNT 2301 (Principles of Financial Acct.)	4
* ECON 2301 (Principles of Microeconomics) or 2302 (Principles of Macroeconomics)	3
MRKG 1311 (Principles of Marketing)	3
ARTS 1301 , HUMA 1301 , PHIL 1301	3
BUSG 2309 (Small Business Management)	3
ITSW 1307 (Introduction to Database)	3
COSC 1336 (Program Fundamentals I) or ITSE 2317 (Java Programming)	3
SPCH 1311 , SPCH 1321 , or ENGL 2311	3
MRKG 2333 (Principles of Selling)	3
IMED 2313 (Project Analysis and Design- Capstone)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Web Based Small Business Development Certificate

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
BUSG 1304 (Financial Literacy)	3
IMED 1341 (Interface Design)	3
BUSI 1301 (Business Principles)	3
ENGL 1301 (Composition I)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1302 (E-Business Management)	3
MATH 1314 (College Algebra)	3
MRKG 1302 (Principles of Retailing)	3
IMED 1316 (Internet Web Page Design I)	3
30	

Web Based Small Business Foundation Certificate

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
MRKG 1311 (Principles of Marketing)	3
IMED 1341 (Interface Design)	3
BUSI 1301 (Business Principles)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1304 (Financial Literacy)	3
18	

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

IMED 1341 - Interface Design

Skill development in the interface design process including selecting interfaces relative to a project's content and delivery system. Emphasis on aesthetic issues such as iconography, screen composition, colors, and typography. Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

IMED 2301 - Instructional Design

An in-depth study of the instructional design process based on learning theories including evaluation of models and design examples. The student will follow the instructional design process to determine a project's content; produce an instructional multimedia project; and test and revise the project. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

IMED 2309 - Internet Commerce

An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Topics include database technology, creating web sites in order to collect information, performing on line transactions, and generating dynamic content. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

IMED 2313 - Project Analysis and Design

Application of the planning and production processes for digital media projects. Emphasis on copyright and other legal issues, content design and production management.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Web Based Small Business Development

Overview

Helping small businesses develop their presence in the electronic marketplace is the focus of this unique program. Students learn the skills necessary to manage a small business, oftentimes a home-based business. This program includes courses in Web Design Tools, Interface Design, Advanced Database, and Project Analysis & Design as well as courses in Marketing, Economics, Business, Computer Science, and communication.

Students can complete three levels of training:

- Web Based Small Business Foundation Certificate (18 credit hours)
- Web Based Small Business Development Certificate (34 credit hours)
- Web Based Small Business Development Associate of Applied Science Degree (60 credit hours)

AAS Degree Requirements

Associate of Applied Science Degree

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
IMED 1341 (Interface Design)	3
BUSG 1304 (Financial Literacy)	2
BUSI 1301 (Business Principles)	3
ENGL 1301 (Composition I)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1302 (E-Business Management)	3
MATH 1314 (College Algebra)	3
MRKG 1302 (Principles of Retailing)	3
IMED 1316 (Internet Web Page Design I)	3
ACNT 1303 (Intro to Accounting I) or ACNT 2301 (Principles of Financial Acct.)	4
* ECON 2301 (Principles of Microeconomics) or 2302 (Principles of Macroeconomics)	3
MRKG 1311 (Principles of Marketing)	3
ARTS 1301 , HUMA 1301 , PHIL 1301	3
BUSG 2309 (Small Business Management)	3
ITSW 1307 (Introduction to Database)	3
COSC 1336 (Program Fundamentals I) or ITSE 2317 (Java Programming)	3

SPCH 1311 , SPCH 1321 , or ENGL 2311	3
MRKG 2333 (Principles of Selling)	3
IMED 2313 (Project Analysis and Design- Capstone)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Web Based Small Business Development Certificate

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
BUSG 1304 (Financial Literacy)	3
IMED 1341 (Interface Design)	3
BUSI 1301 (Business Principles)	3
ENGL 1301 (Composition I)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1302 (E-Business Management)	3
MATH 1314 (College Algebra)	3
MRKG 1302 (Principles of Retailing)	3
IMED 1316 (Internet Web Page Design I)	3
	30

Web Based Small Business Foundation Certificate

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
MRKG 1311 (Principles of Marketing)	3
IMED 1341 (Interface Design)	3
BUSI 1301 (Business Principles)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1304 (Financial Literacy)	3
	18

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

IMED 2313 - Project Analysis and Design

Application of the planning and production processes for digital media projects. Emphasis on copyright and other legal issues, content design and production management. Capstone Course.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Technology

IMED 2315 - Web Page Design II

A study of hypertext mark-up language (HTML) and interesting layout techniques for creating and engaging well designed web pages. Emphasis on identifying the target audience and producing a web site according to physical and technical limitations, cultural appearance, and legal issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Advanced Manufacturing

Overview

Advanced manufacturing technology is used in automated fabrication machinery (robotics) that require skilled technicians to design, program, service and repair. Mechatronics refers to the combination of **mechanics** and **electronics**.

Our hands-on Advanced Manufacturing programs prepare you to go to work as an entry-level service technician, diagnosing, servicing and repairing automated systems. Advanced manufacturing skills are also an excellent supplement to related areas such as electronics and engineering.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303 (Technical Calculations)	3
EDUC 1300 (Learning Frameworks)	3
* CRIJ 1307 or HIST 1301	3
MATH 1332 (Contemporary Mathematics)	3
MCHN 1320 (Precision Tools and Measurements)	3
ELPT 1311 (Fundamentals of Electricity)	3
MCHN 1302 (Print Reading for Machine Trade)	3
ENGL 1301 (Composition I)	3

* ARTS 1301 or PHIL 1301	3
MCHN 1371 (Manufacturing Skills Standards)	3
QCTC 1343 Quality Assurance)	3
MCHN 1438 (Basic Machine Shop I)	4
MCHN 1454	4
ELPT 2319 (Programmable Logic Controllers I)	3
MCHN 1326 (Intro to Computer Aided Manufacturing)	3
INMT 1391 (Special Topics in Manufacturing Tech.)	3
ELPT 1441 (Motor Control)	4
INMT 2688 (Internship-Manufacturing Technology/ Technician)	6

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
TECH 1303 (Technical Calculations)	3
MCHN 1320 (Prec Tools & Measure)	3
ELPT 1311 (Basic Electrical Theory)	3
MCHN 1302 (Print Rdng for Mchn)	3
MCHN 1371 (MSSC Local Needs)	3
QCTC 1343 (Quality Assurance)	3
MCHN 1438 (Basic Mch Shop I)	4
ELPT 2319 (PLC'S I)	3
MCHN 1326 (CAM)	3
INMT 1391 (Spec Top in Mfg Technology)	3
ELPT 1441 (Motor Controls)	4
INMT 2688 (Internship Mfg Tech)	6
	41

Mechatronics Technician Certificate

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
WLDG 1421 (Intro to Welding Fundamentals)	4
HART 1407 (Refrigeration Principles)	4
DFTG 1405 (Technical Drafting)	4
	16

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

INMT 1391 - Special Topics in Manufacturing Technology

Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

INMT 2688 - Internship- Manufacturing Technology/Technician

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 6.0

Lab hours: 20.0

Reading

INRW 0115 - Integrated Reading and Writing Lab

This lab is an individualized learning program for students who have not passed the reading or writing portion of the college assessment test and have specialized environment and/or time constraints. Assignments will include reading and writing activities and may include computer-assisted instruction.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Students must make satisfactory reading and/or writing progress to repeat this option.
-

English

Overview

For students interested in pursuing an English degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

INSR 0310 - Integrated Reading and Writing I.

This is a combined lecture/lab, performance based course designed to develop students' critical reading and academic writing skills. The focus of the course will be applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to audience, purpose, situation, and length of assignment. The course integrates preparation in basic academic reading skills with basic skills in writing a variety of academic essays.

Upon completion, students will be able to:

- The course will emphasize close reading of the texts, and there will be frequent writing assignments.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a course with a required lab. (Entry-level course for students who are not TSI complete in reading and/or writing.)
-

Reading

INRW 0310 - Integrated Reading and Writing I

This is a combined lecture/lab, performance-based course designed to develop students' critical reading and academic writing skills. The course emphasizes critical reading and writing skills, including organizing, analyzing, and retaining material and developing written work that addresses audience, purpose, situation, and length of assignment. The course emphasizes close reading of texts and frequent writing assignments.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is an entry-level course with a required lab for students who are not TSI complete in reading and/or writing.
-

English

Overview

For students interested in pursuing an English degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

INRW 0315 - Integrated Reading and Writing I

Critical reading and academic writing skills. The intervention fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.
-

Reading

INRW 0315 - Integrated Reading and Writing I

This is a NCBO (non-course based option), a non-semester length, competency-based option. Assignments emphasize critical reading and academic writing skills, including organizing, analyzing and retaining material and developing written work. This NCBO emphasizes close reading of texts and frequent writing assignments that address audience, purpose, situation and length of assignment. Instructor-recommended early completion of the course fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Instructor-recommended early completion of this NCBO fulfills TSI requirements for reading and writing.
-

English

Overview

For students interested in pursuing an English degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

INRW 0320 - Integrated Reading and Writing II

This is a combined lecture/lab, performance based course designed to enhance students' critical reading and academic writing skills. The focus of the course will be applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to audience, purpose, situation, and length of assignment. The course integrates preparation in basic academic reading skills with basic skills in writing a variety of academic essays.

Upon completion, students will be able to:

- See Course Description

Grade Basis: AL

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Restrictions:

- This is a course with a required lab. (Exit level course for satisfying TSI completion in reading and writing.)
-

Reading

INRW 0320 - Integrated Reading and Writing II

This exit-level course is a combined lecture/lab, performance-based course. The course emphasizes and provides further development of critical reading and writing skills, including organizing, analyzing and retaining material and developing written work that addresses audience, purpose, situation and length of assignment. The course emphasizes close reading of texts and frequent writing assignments. Successful completion of this course fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Restrictions:

- This is an exit-level course with required lab for students who have successfully completed the entry-level course.
-

English

Overview

For students interested in pursuing an English degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

INRW 0325 - Integrated Reading and Writing II

Critical reading and academic writing skills. The intervention fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: AL

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Reading

INRW 0325 - Integrated Reading and Writing II

This exit-level NCBO (non-course based option) is a non-semester length, competency-based option. Assignments emphasize critical reading and academic writing skills, including organizing, analyzing and retaining material and developing written work that addresses audience, purpose, situation and length of assignment. The NCBO emphasizes close reading of texts and frequent writing assignments. Successful completion of this NCBO fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Discription

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Banking

Overview

The Business and Management Department at Grayson College offers two certificates related to Banking: General Banking and Bank Operations. Both are designed to prepare students for employment in the various aspects of the banking industry. The certificates may also be used by people in the banking industry to hone or expand required skills.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

Capstone Experience

Graduation with either the General Banking or Bank Operations Certificates requires successful completion of a Capstone Course.

Certificate Degree Requirements

General Banking Certificate

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BUSG 2309 (Small Business Management)	3
MRKG 1311 (Principles of Marketing)	3
BUSG 1304 (Financial Literacy)	3
INSR 1351 (Essentials of Risk Management)	3
AGMG 1311 (Intro to Agribusiness)	3
BNKG 1303 (Capstone - Principles of Banking Operations)	3
	<hr/> 21

Enroll in BNKG 1303 during the semester you plan to complete the certificate.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Bank Operations Certificate

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BUSG 1304 (Financial Literacy)	3
MRKG 1311 (Principles of Marketing)	3
BNKG 1303 (Capstone - Principles of Banking Operations)	3
INSR 1351 (Essentials of Risk Management)	3
AGMG 1311 (Intro to Agribusiness)	3
ACCT 2302 (Principles of Managerial Acct.)	3
BUSG 2305 (Business Law/Contracts)	3
BMGT 1305 (Communications in Management)	3
MRKG 2333 (Principles of Selling)	3
MRKG 1302 (Principles of Retailing)	3
BNKG 1340 (Capstone - Money and Financial Markets)	3
BUSG 2309 (Small Business Management)	3
	<hr/> 39

Enroll in BNKG 1340 during the semester you plan to complete the certificate

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

INSR 1351 - Essentials of Risk Management

Study of the risk management decision-making process. Emphasis on identification and analysis of loss exposures and development of alternative techniques for the treatment of each exposure.

Upon completion, students will be able to:

- Emphasis on identification and analysis of loss exposures and development of alternative techniques

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Welding

Overview

The Welding Program will prepare you for most of the basic welding processes to join such metals as carbon, aluminum, and stainless steel, which will provide you with the information and training to step directly into employment. The program will also prepare you for many types of employment related to welding, such as engineering, quality control, manufacturing technician, etc.

Grayson College offers an Associate of Applied Science degree and two certificate of completions that train students in **Combination Welding** and **Structural Welding**.

Many of the Welding courses may be taken for non-credit through the College's Continuing Education division. Classes are available on the Main Campus and the South Campus.

Course Requirements

The Associate Degree, the Structural Welder Certificate and the Combination Welder Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have completed the TSI requirements.

Capstone Experience

Graduation with the Associate of Applied Science Degree in Welding or the completion of the Combination or Structural Welding Certificate requires successful completion of a Comprehensive Exit Exam.

Local Employers

ACS, B-Line, Caterpillar, Champion Cooler, Custom Bodies, Dutec Magna-Fab, Mueller Construction, Progress Rail, Plyler Construction, Weld-Co

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
WLDG 1421 (Introduction to Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding)	4
DFTG 1309 (Basic Computer-Aided Drafting)	3
MATH 1332 (Contemporary Mathematics)	3
WLDG 1457 (Intermediate Shielded Metal Arc Welding)	4
WLDG 1430 (Introduction to Gas Metal Arc)	4
*Life, Phil, Culture/Creative Arts Core	3
BUSI 2309 (Small Business Management)	3
WLDG 1434 (Introduction to Gas Tungsten Arc Welding)	4
DFTG 1325 (Blueprint Reading)	3
WLDG 2447 (Advanced Gas Metal Arc Welding)	4
ENGL 1301 (Composition I)	3
*Social & Behavioral Science	3
WLDG 2451 (Advanced Gas Tungsten Arc Welding)	4
WLDG 2406 (Intermediate Pipe Welding)	4
SPCH 1321 (Business & Professional Communication)	3
HART 1401 (Basic Electricity for HVAC)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Welding—Combination Welder Certificate

Subject	Semester Hours
WLDG 1421 (Introduction to Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding)	4
WLDG 1457 (Intermediate Shielded Metal Arc Welding)	4
WLDG 1430 (Introduction to Gas Metal Arc Welding)	4
WLDG 1434 (Introduction to Gas Tungsten Arc Welding)	4
WLDG 2406 (Intermediate Pipe Welding)	4
DFTG 1325 (Blueprint Reading)	3
WLDG 2451 (Advanced Gas Tungsten Arc Welding)	4
WLDG 2447 (Advanced Gas Metal Arc Welding)	4

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Welding—Structural Certificate

Subject	Semester Hours
WLDG 1421 (Introduction to Welding Fundamentals)	3
WLDG 1428 (Introduction to Shielded Metal Arc Welding)	3
WLDG 1430 (Introduction to Gas Metal Arc Welding)	3
WLDG 1457 (Intermediate Shielded Metal Arc Welding)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

WLDG 2406 - Intermediate Pipe Welding

A Comprehensive course on the welding of pipe using shielded metal arc welding (SMAW) and/or other processes. Welds will be done using various positions. Topics covered include electrode selection, equipment setup, and safe shop practices.

Upon completion, students will be able to:

- Describe equipment and required preparation; perform welds using various positions.

Grade Basis: L

Credit hours: 4.0

Lab hours: 2.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology)	3
Elective*	3

ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Elective*	3
*Mathematics/Life & Physical Science Core	3
SPCH 1311 (Introduction to Speech Communication)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Elective*	3
*Language, Philosophy, Culture/Creative Arts	3
CPMT 2345 (Computer Systems Troubleshooting)	3
CPMT 1349 (Computer Networking Technology)	3
Elective*	3
ITSC 1316 (Linux Installation and Configuration)	3
*Social & Behavioral Science Core	3

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309. ITSY 2317, ITNW 2355, ITSC 1342, ITSC 2325

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
ITSC 2339 (Personal Computer Help Desk)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1308 (Implementing and Supporting Client Operating Systems)	3
CPMT 1349 (Computer Networking Technology)	3
CPMT 2345 (Computer Systems Troubleshooting)	3
ITNW 2305 (Network Administration)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
EECT 1407 (Convergent Technologies)	4

CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1349 (Computer Networking Technology)	3
ITNW 2305 (Network Administration)	3
CPMT 2345 (Computer Systems Troubleshooting)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITNW 1308 - Implementing and Supporting Client Operating Systems

Skills development in the management of client desktop operating systems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITNW 1325 - Fundamentals of Networking Technologies

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software for local, wireless, and wide area networking.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Technology

ITNW 1325 - Fundamentals of Networking Technologies

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology)	3
Elective*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Elective*	3
*Mathematics/Life & Physical Science Core	3
SPCH 1311 (Introduction to Speech Communication)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Elective*	3
*Language, Philosophy, Culture/Creative Arts	3
CPMT 2345 (Computer Systems Troubleshooting)	3
CPMT 1349 (Computer Networking Technology)	3
Elective*	3
ITSC 1316 (Linux Installation and Configuration)	3
*Social & Behavioral Science Core	3

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309. ITSY 2317, ITNW 2355, ITSC 1342, ITSC 2325

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
ITSC 2339 (Personal Computer Help Desk)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1308 (Implementing and Supporting Client Operating Systems)	3
CPMT 1349 (Computer Networking Technology)	3
CPMT 2345 (Computer Systems Troubleshooting)	3
ITNW 2305 (Network Administration)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
EECT 1407 (Convergent Technologies)	4
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1349 (Computer Networking Technology)	3
ITNW 2305 (Network Administration)	3
CPMT 2345 (Computer Systems Troubleshooting)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITNW 1351 - Fundamentals of Wireless LANs

Designing, planning, implementing, operating, and troubleshooting wireless LANs (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITNW 1354 - Implementing and Supporting Servers

Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

ITNW 1392 - Special Topics in Computer Systems/Networking and Telecommunications

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Computer Maintenance and Networking Technology

Overview

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Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

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AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology)	3
Elective*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Elective*	3

*Mathematics/Life & Physical Science Core	3
SPCH 1311 (Introduction to Speech Communication)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Elective*	3
*Language, Philosophy, Culture/Creative Arts	3
CPMT 2345 (Computer Systems Troubleshooting)	3
CPMT 1349 (Computer Networking Technology)	3
Elective*	3
ITSC 1316 (Linux Installation and Configuration)	3
*Social & Behavioral Science Core	3

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309. ITSY 2317, ITNW 2355, ITSC 1342, ITSC 2325

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
ITSC 2339 (Personal Computer Help Desk)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1308 (Implementing and Supporting Client Operating Systems)	3
CPMT 1349 (Computer Networking Technology)	3
CPMT 2345 (Computer Systems Troubleshooting)	3
ITNW 2305 (Network Administration)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
EECT 1407 (Convergent Technologies)	4
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1349 (Computer Networking Technology)	3
ITNW 2305 (Network Administration)	3
CPMT 2345 (Computer Systems Troubleshooting)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

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GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

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GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

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PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

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ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITNW 2305 - Network Administration

Topics include network components, user accounts and groups, network file systems, file system security, and network printing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

ITNW 2305 - Network Administration

Topics include network components, user accounts and groups, network file systems, file system security, and network printing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Cyber Security

Overview

The Cybersecurity AAS degree prepares students for a career in cybersecurity management and the support tasks relating to network management, system administration, technical support, hardware/software installation, and equipment repair.

The program graduate will be able to design and install secure network systems based on customer requirements, monitor and maintain network traffic and security, and maintain network hardware and software.

Courses and hands-on labs in this program will assist the graduate in preparing to take a variety of Cisco, Microsoft, and CompTIA certification examinations.

Note:

Most careers in the Cyber Security field require a criminal background check, thus your placement in internships, and/or licensure/certification opportunities may be impacted. If you have any questions or concerns, please contact your program director and/or check with your chosen licensing/certification entity, to determine your status.

AAS Degree Requirements

Associate of Applied Science - Cybersecurity

Subject	Semester Hours
ENGL 1301 (Composition I)	3
ITNW 1354 (Implementing and Supporting Servers)	3
*Elective	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSC 1342 (Shell Programming)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1316 (Linux Installation and Configuration)	3
*Elective	3
*Life and Physical Sciences/Math Core	3
ITSY 1300 (Fundamentals of Information Security)	3
ITSY 2317 (Wireless Security Development)	3
SPCH 1311 (Introduction to Speech Communication)	3
ITNW 2305 (Network Administration)	3
*Lang, Phil, Culture/Creative Arts Core	3

ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
Elective	3
ITSC 2325 (Advanced Linux)	3
*Social/Behavioral Sciences	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Cyber Security Technician - Certificate

Subject	Semester Hours
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSC 1342 (Shell Programming)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1316 (Linux Installation and Configuration)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITSY 2317 (Wireless Security Development)	3
ITNW 2305 (Network Administration)	3
ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
ITSC 2325 (Advanced Linux)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

ITNW 2355 - Server Virtualization

An in-depth study of the installation, configuration, management and troubleshooting of a virtualized server environment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

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Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology)	3
Elective*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Elective*	3
*Mathematics/Life & Physical Science Core	3
SPCH 1311 (Introduction to Speech Communication)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Elective*	3
*Language, Philosophy, Culture/Creative Arts	3
CPMT 2345 (Computer Systems Troubleshooting)	3
CPMT 1349 (Computer Networking Technology)	3
Elective*	3
ITSC 1316 (Linux Installation and Configuration)	3
*Social & Behavioral Science Core	3

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309. ITSY 2317, ITNW 2355, ITSC 1342, ITSC 2325

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
ITSC 2339 (Personal Computer Help Desk)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1308 (Implementing and Supporting Client Operating Systems)	3
CPMT 1349 (Computer Networking Technology)	3
CPMT 2345 (Computer Systems Troubleshooting)	3
ITNW 2305 (Network Administration)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
EECT 1407 (Convergent Technologies)	4
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1349 (Computer Networking Technology)	3
ITNW 2305 (Network Administration)	3
CPMT 2345 (Computer Systems Troubleshooting)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology)	3

CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

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BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

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CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSC 1305 - PC Operating Systems

Introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Technology

ITSC 1305 - PC Operating Systems

A study of personal computer operating systems. Topics include installation and configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. (Operating system software utilization for standard microcomputer hardware systems. Basic knowledge, theory and applications to create and manage files and data, run programs, and use utilities. General theory of many different systems will be presented. Applicable areas of computer science affecting microcomputer hardware programs will be included to provide substantial literacy for users not conversant in operating systems technology.)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

ITSC 1309 - Integrated Software Applications

Introduction to business productivity software suites using word processing, spreadsheets, databases, and/or presentation software.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology)	3
Elective*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Elective*	3
*Mathematics/Life & Physical Science Core	3
SPCH 1311 (Introduction to Speech Communication)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Elective*	3
*Language, Philosophy, Culture/Creative Arts	3
CPMT 2345 (Computer Systems Troubleshooting)	3
CPMT 1349 (Computer Networking Technology)	3
Elective*	3
ITSC 1316 (Linux Installation and Configuration)	3
*Social & Behavioral Science Core	3

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309. ITSY 2317, ITNW 2355, ITSC 1342, ITSC 2325

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
ITSC 2339 (Personal Computer Help Desk)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1308 (Implementing and Supporting Client Operating Systems)	3
CPMT 1349 (Computer Networking Technology)	3
CPMT 2345 (Computer Systems Troubleshooting)	3
ITNW 2305 (Network Administration)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
EECT 1407 (Convergent Technologies)	4
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1349 (Computer Networking Technology)	3
ITNW 2305 (Network Administration)	3
CPMT 2345 (Computer Systems Troubleshooting)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSC 1316 - Linux Installation and Configuration

Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Computer Technology

ITSC 1325 - Personal Computer Hardware

A study of current personal computer hardware including personal computer assembly and upgrading, setup and configuration, and troubleshooting. Designing microcomputer system for business or home and isolating problems. Intermediate subjects include putting together hardware, installing hard drive and operating system, and installing and customizing popular application software. Prerequisite: sophomore standing or consent of division dean. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Cyber Security

Overview

The Cybersecurity AAS degree prepares students for a career in cybersecurity management and the support tasks relating to network management, system administration, technical support, hardware/software installation, and equipment repair.

The program graduate will be able to design and install secure network systems based on customer requirements, monitor and maintain network traffic and security, and maintain network hardware and software.

Courses and hands-on labs in this program will assist the graduate in preparing to take a variety of Cisco, Microsoft, and CompTIA certification examinations.

Note:

Most careers in the Cyber Security field require a criminal background check, thus your placement in internships, and/or licensure/certification opportunities may be impacted. If you have any questions or concerns, please contact your program director and/or check with your chosen licensing/certification entity, to determine your status.

AAS Degree Requirements

Associate of Applied Science - Cybersecurity

Subject	Semester Hours
ENGL 1301 (Composition I)	3
ITNW 1354 (Implementing and Supporting Servers)	3
*Elective	3

ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSC 1342 (Shell Programming)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1316 (Linux Installation and Configuration)	3
*Elective	3
*Life and Physical Sciences/Math Core	3
ITSY 1300 (Fundamentals of Information Security)	3
ITSY 2317 (Wireless Security Development)	3
SPCH 1311 (Introduction to Speech Communication)	3
ITNW 2305 (Network Administration)	3
*Lang, Phil, Culture/Creative Arts Core	3
ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
Elective	3
ITSC 2325 (Advanced Linux)	3
*Social/Behavioral Sciences	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Cyber Security Technician - Certificate

Subject	Semester Hours
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSC 1342 (Shell Programming)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1316 (Linux Installation and Configuration)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITSY 2317 (Wireless Security Development)	3
ITNW 2305 (Network Administration)	3
ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
ITSC 2325 (Advanced Linux)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

ITSC 1342 - Shell Programming

Reading, writing, and debugging shell scripts. Development of scripts to automate frequently executed sequences of commands. Covers conditional logic, user interaction, loops, and menus to enhance the productivity and effectiveness of the user. Intended for programmers who are familiar with operating environments and reading and writing various shell scripts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

ITSC 1391 - Special Topics in CIS

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Current developments in the rapidly changing field of computer information systems are studied. Course may be repeated for credit when topics vary.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Restrictions:

- Will vary based on topics covered and will be annotated in each semester's class schedule
 - Lab required
-

ITSC 1407 - UNIX Operating System I

A study of the UNIX operating system including multiuser concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Topics include introductory systems management concepts. Transition from MS-DOS to UNIX. Basics of the UNIX operating system, shells, editor, windowing programs (X-Windows and Motif) will provide knowledge of powerful operating system. May include connectivity issues with Windows NT, OS/2 or other operating system. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

ITSC 1416 - Linux Installation and Configuration

Open-source Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux. Also covers maintaining and securing reliable Linux systems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [CPMT 1345](#) - Computer Systems Maintenance
 - [ITSC 1305](#) - PC Operating Systems
-

ITSC 1491 - Directed Research and Industry Certification

The student and instructor will develop a written competency-based learning plan with varied learning objectives based upon chosen specialty. Objectives will allow the student to specialize in software packages through in-depth

hands-on and theoretical experience. Goal to prepare student for industry certification exams to be taken after graduation. Student and instructor must develop new learning objectives each semester in response to ever changing industry requirements. Capstone course should be taken during semester of graduation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 4.0

ITSC 2321 - Integrated Software Applications II

(FALL ONLY). Intermediate study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Office and Computer Tech

Overview

Today's office environment demands proficiency with the internet and a variety of software applications. The ability to quickly and easily learn new programs is a necessity to perform tasks efficiently and accurately.

The **Associate of Applied Science Degree** is a 60-hour online program designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions.

The **Administrative Assistant Certificate** is a 42-hour online program that will prepare the student for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office.

The **Medical Administrative Certificate** is a 42-hour online program that will prepare the student to work in a variety of settings throughout the healthcare industry including hospitals, physician offices, insurance companies, government agencies, and companies providing services to the medical community. Areas of study include medical coding, terminology, ethics, and electronic health records management.

The **Accounting Office Support Certificate** is a 36-hour online program that will prepare the student for a career in the accounting field.

The **Applications Software Specialist Certificate** is a 30-hour online program that concentrates on computer software. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Workforce Preparation). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office & Computer Technology

Subject	Semester Hours
ENGL 1301 (Composition I)	3
POFT 1301 (Business English)	3
ACNT 1303 (Introduction to Accounting I)	3
*Social and Behavioral Science Core	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
* POFT 2303 or ARTC 1325	3
*Math/Life and Physical Science Core	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
*Elective	3
POFT 2331 (Administrative Project Solutions)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
*Elective	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFT 1301 (Business English)	2
POFT 2303 (Speed and Accuracy Building)	2
POFI 2301 (Word Processing)	3
ACNT 1303 (Introduction to Accounting I)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ACNT 1304 (Introduction to Accounting II)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3

POFT 2312 (Business Correspondence & Communication)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFT 2331 (Administrative Project Solutions)	3

Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
POFT 2303 (Speed and Accuracy Building)	2
ACNT 1303 (Introduction to Accounting I)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2331 (Administrative Project Solutions)	3
ITSW 1307 (Introduction to Database)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
ACNT 1313 (Computerized Accounting Applications)	3
*Elective	3

Applications Software Specialist Certificate

Subject	Semester Hours
POFT 2303 (Speed and Accuracy Building)	3
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ARTC 1325 (Introduction to Computer Graphics)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFI 1301 (Computer Applications I)	3

Medical Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
HITT 1305 (Medical Terminology I)	3
POFT 2303 (Speed and Accuracy Building)	3
POFI 2301 (Word Processing)	3
POFI 1301 (Computer Applications I)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1304 (Introduction to Spreadsheets)	3
HITT 1341 (Coding and Classification Systems)	3
POFT 2331 (Administrative Project Solutions)	3
HITT 1311 (Health Information Systems)	3
HITT 2346 (Advanced Medical Coding)	3

HITT 1353 (Legal and Ethical Aspects of Health Information)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFM 1317 (Medical Administrative Support)	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSC 2321 - Integrated Software Applications II

(FALL ONLY) Intermediate study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Cyber Security

Overview

The Cybersecurity AAS degree prepares students for a career in cybersecurity management and the support tasks relating to network management, system administration, technical support, hardware/software installation, and equipment repair.

The program graduate will be able to design and install secure network systems based on customer requirements, monitor and maintain network traffic and security, and maintain network hardware and software.

Courses and hands-on labs in this program will assist the graduate in preparing to take a variety of Cisco, Microsoft, and CompTIA certification examinations.

Note:

Most careers in the Cyber Security field require a criminal background check, thus your placement in internships, and/or licensure/certification opportunities may be impacted. If you have any questions or concerns, please contact your program director and/or check with your chosen licensing/certification entity, to determine your status.

AAS Degree Requirements

Associate of Applied Science - Cybersecurity

Subject	Semester Hours
ENGL 1301 (Composition I)	3
ITNW 1354 (Implementing and Supporting Servers)	3
*Elective	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSC 1342 (Shell Programming)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1316 (Linux Installation and Configuration)	3
*Elective	3
*Life and Physical Sciences/Math Core	3
ITSY 1300 (Fundamentals of Information Security)	3
ITSY 2317 (Wireless Security Development)	3
SPCH 1311 (Introduction to Speech Communication)	3
ITNW 2305 (Network Administration)	3
*Lang, Phil, Culture/Creative Arts Core	3
ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
Elective	3
ITSC 2325 (Advanced Linux)	3
*Social/Behavioral Sciences	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Cyber Security Technician - Certificate

Subject	Semester Hours
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ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSC 1342 (Shell Programming)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1316 (Linux Installation and Configuration)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITSY 2317 (Wireless Security Development)	3
ITNW 2305 (Network Administration)	3
ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
ITSC 2325 (Advanced Linux)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

ITSC 2325 - Advanced Linux

Provides instruction in advance open-source Linux operating system. Develops directory services for clients, support users remotely, and install and configure network services.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Computer Technology

ITSC 2339 - Personal Computer Help Desk

Diagnosis and solution of user hardware and software related problems with hands-on and/or simulated projects. Also covers helpdesk management and performance metrics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Web Based Small Business Development

Overview

Helping small businesses develop their presence in the electronic marketplace is the focus of this unique program. Students learn the skills necessary to manage a small business, oftentimes a home-based business. This program includes courses in Web Design Tools, Interface Design, Advanced Database, and Project Analysis & Design as well as courses in Marketing, Economics, Business, Computer Science, and communication.

Students can complete three levels of training:

- Web Based Small Business Foundation Certificate (18 credit hours)
- Web Based Small Business Development Certificate (34 credit hours)
- Web Based Small Business Development Associate of Applied Science Degree (60 credit hours)

AAS Degree Requirements

Associate of Applied Science Degree

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
IMED 1341 (Interface Design)	3
BUSG 1304 (Financial Literacy)	2
BUSI 1301 (Business Principles)	3
ENGL 1301 (Composition I)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1302 (E-Business Management)	3
MATH 1314 (College Algebra)	3
MRKG 1302 (Principles of Retailing)	3
IMED 1316 (Internet Web Page Design I)	3
ACNT 1303 (Intro to Accounting I) or ACNT 2301 (Principles of Financial Acct.)	4
* ECON 2301 (Principles of Microeconomics) or 2302 (Principles of Macroeconomics)	3
MRKG 1311 (Principles of Marketing)	3
ARTS 1301 , HUMA 1301 , PHIL 1301	3
BUSG 2309 (Small Business Management)	3
ITSW 1307 (Introduction to Database)	3
COSC 1336 (Program Fundamentals I) or ITSE 2317 (Java Programming)	3
SPCH 1311 , SPCH 1321 , or ENGL 2311	3
MRKG 2333 (Principles of Selling)	3
IMED 2313 (Project Analysis and Design-Capstone)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Web Based Small Business Development Certificate

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
BUSG 1304 (Financial Literacy)	3
IMED 1341 (Interface Design)	3
BUSI 1301 (Business Principles)	3
ENGL 1301 (Composition I)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1302 (E-Business Management)	3
MATH 1314 (College Algebra)	3
MRKG 1302 (Principles of Retailing)	3
IMED 1316 (Internet Web Page Design I)	3
	30

Web Based Small Business Foundation Certificate

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3

MRKG 1311 (Principles of Marketing)	3
IMED 1341 (Interface Design)	3
BUSI 1301 (Business Principles)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1304 (Financial Literacy)	3
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	18

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSE 1301 - Web Design Tools

Designing and publishing Web documents according to World Wide Web Consortium (W3C) standards. Emphasis on optimization of graphics and images and exploration of the tools available for creating and editing Web documents.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSE 2309 - Database Programming.

Database development using database programming techniques emphasizing database structures, modeling, building reports and database access (SQL).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Technology

ITSE 2317 - JAVA Programming

Introduction to JAVA programming with object-orientation. Emphasis on the fundamental syntax and semantics of JAVA for applications and web applets

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSE 2386 - Internship – Computer Programming/Programmer, General

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lab hours: 18.0

ITSW 1304 - Introduction to Spreadsheets

Instruction in the concepts, procedures, and application of electronic spreadsheets.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Office and Computer Tech

Overview

Today's office environment demands proficiency with the internet and a variety of software applications. The ability to quickly and easily learn new programs is a necessity to perform tasks efficiently and accurately.

The **Associate of Applied Science Degree** is a 60-hour online program designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions.

The **Administrative Assistant Certificate** is a 42-hour online program that will prepare the student for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office.

The **Medical Administrative Certificate** is a 42-hour online program that will prepare the student to work in a variety of settings throughout the healthcare industry including hospitals, physician offices, insurance companies, government agencies, and companies providing services to the medical community. Areas of study include medical coding, terminology, ethics, and electronic health records management.

The **Accounting Office Support Certificate** is a 36-hour online program that will prepare the student for a career in the accounting field.

The **Applications Software Specialist Certificate** is a 30-hour online program that concentrates on computer software. The student will have a strong working foundation of several software packages currently used in industry

today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Workforce Preparation). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office & Computer Technology

Subject	Semester Hours
ENGL 1301 (Composition I)	3
POFT 1301 (Business English)	3
ACNT 1303 (Introduction to Accounting I)	3
*Social and Behavioral Science Core	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
* POFT 2303 or ARTC 1325	3
*Math/Life and Physical Science Core	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
*Elective	3
POFT 2331 (Administrative Project Solutions)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
*Elective	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFT 1301 (Business English)	2
POFT 2303 (Speed and Accuracy Building)	2
POFI 2301 (Word Processing)	3
ACNT 1303 (Introduction to Accounting I)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ACNT 1304 (Introduction to Accounting II)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 2312 (Business Correspondence & Communication)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFT 2331 (Administrative Project Solutions)	3

Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
POFT 2303 (Speed and Accuracy Building)	2
ACNT 1303 (Introduction to Accounting I)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2331 (Administrative Project Solutions)	3
ITSW 1307 (Introduction to Database)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
ACNT 1313 (Computerized Accounting Applications)	3
*Elective	3

Applications Software Specialist Certificate

Subject	Semester Hours
POFT 2303 (Speed and Accuracy Building)	3
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ARTC 1325 (Introduction to Computer Graphics)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFI 1301 (Computer Applications I)	3

Medical Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
HITT 1305 (Medical Terminology I)	3
POFT 2303 (Speed and Accuracy Building)	3
POFI 2301 (Word Processing)	3
POFI 1301 (Computer Applications I)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1304 (Introduction to Spreadsheets)	3
HITT 1341 (Coding and Classification Systems)	3
POFT 2331 (Administrative Project Solutions)	3
HITT 1311 (Health Information Systems)	3
HITT 2346 (Advanced Medical Coding)	3
HITT 1353 (Legal and Ethical Aspects of Health Information)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFM 1317 (Medical Administrative Support)	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSW 1304 - Introduction to Spreadsheets

Instruction in the concepts, procedures, and application of electronic spreadsheets.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Computer Technology

ITSW 1307 - Introduction to Database

Introduction to database theory and the practical applications of a database.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Office and Computer Tech

Overview

Today's office environment demands proficiency with the internet and a variety of software applications. The ability to quickly and easily learn new programs is a necessity to perform tasks efficiently and accurately.

The **Associate of Applied Science Degree** is a 60-hour online program designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions.

The **Administrative Assistant Certificate** is a 42-hour online program that will prepare the student for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office.

The **Medical Administrative Certificate** is a 42-hour online program that will prepare the student to work in a variety of settings throughout the healthcare industry including hospitals, physician offices, insurance companies, government agencies, and companies providing services to the medical community. Areas of study include medical coding, terminology, ethics, and electronic health records management.

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Course Requirements

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Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Workforce Preparation). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office & Computer Technology

Subject	Semester Hours
ENGL 1301 (Composition I)	3
POFT 1301 (Business English)	3
ACNT 1303 (Introduction to Accounting I)	3
*Social and Behavioral Science Core	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
* POFT 2303 or ARTC 1325	3
*Math/Life and Physical Science Core	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
*Elective	3
POFT 2331 (Administrative Project Solutions)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
*Elective	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFT 1301 (Business English)	2
POFT 2303 (Speed and Accuracy Building)	2
POFI 2301 (Word Processing)	3
ACNT 1303 (Introduction to Accounting I)	3
ITSW 1304 (Introduction to Spreadsheets)	3

ACNT 1304 (Introduction to Accounting II)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 2312 (Business Correspondence & Communication)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFT 2331 (Administrative Project Solutions)	3

Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
POFT 2303 (Speed and Accuracy Building)	2
ACNT 1303 (Introduction to Accounting I)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2331 (Administrative Project Solutions)	3
ITSW 1307 (Introduction to Database)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
ACNT 1313 (Computerized Accounting Applications)	3
*Elective	3

Applications Software Specialist Certificate

Subject	Semester Hours
POFT 2303 (Speed and Accuracy Building)	3
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ARTC 1325 (Introduction to Computer Graphics)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFI 1301 (Computer Applications I)	3

Medical Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
HITT 1305 (Medical Terminology I)	3
POFT 2303 (Speed and Accuracy Building)	3
POFI 2301 (Word Processing)	3
POFI 1301 (Computer Applications I)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1304 (Introduction to Spreadsheets)	3
HITT 1341 (Coding and Classification Systems)	3
POFT 2331 (Administrative Project Solutions)	3

HITT 1311 (Health Information Systems)	3
HITT 2346 (Advanced Medical Coding)	3
HITT 1353 (Legal and Ethical Aspects of Health Information)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFM 1317 (Medical Administrative Support)	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

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BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

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BIOL 2301/2101 Anatomy & Physiology I

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GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

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SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSW 1307 - Introduction to Database

Introduction to database theory and the practical applications of a database.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Web Based Small Business Development

Overview

Helping small businesses develop their presence in the electronic marketplace is the focus of this unique program. Students learn the skills necessary to manage a small business, oftentimes a home-based business. This program includes courses in Web Design Tools, Interface Design, Advanced Database, and Project Analysis & Design as well as courses in Marketing, Economics, Business, Computer Science, and communication.

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AAS Degree Requirements

Associate of Applied Science Degree

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Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
IMED 1341 (Interface Design)	3
BUSG 1304 (Financial Literacy)	2
BUSI 1301 (Business Principles)	3
ENGL 1301 (Composition I)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1302 (E-Business Management)	3
MATH 1314 (College Algebra)	3
MRKG 1302 (Principles of Retailing)	3
IMED 1316 (Internet Web Page Design I)	3
ACNT 1303 (Intro to Accounting I) or ACNT 2301 (Principles of Financial Acct.)	4
* ECON 2301 (Principles of Microeconomics) or 2302 (Principles of Macroeconomics)	3
MRKG 1311 (Principles of Marketing)	3
ARTS 1301 , HUMA 1301 , PHIL 1301	3
BUSG 2309 (Small Business Management)	3
ITSW 1307 (Introduction to Database)	3
COSC 1336 (Program Fundamentals I) or ITSE 2317 (Java Programming)	3
SPCH 1311 , SPCH 1321 , or ENGL 2311	3
MRKG 2333 (Principles of Selling)	3
IMED 2313 (Project Analysis and Design- Capstone)	3

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Certificate Degree Requirements

Web Based Small Business Development Certificate

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
BUSG 1304 (Financial Literacy)	3
IMED 1341 (Interface Design)	3
BUSI 1301 (Business Principles)	3

ENGL 1301 (Composition I)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1302 (E-Business Management)	3
MATH 1314 (College Algebra)	3
MRKG 1302 (Principles of Retailing)	3
IMED 1316 (Internet Web Page Design I)	3
	30

Web Based Small Business Foundation Certificate

Subject	Semester Hours
COSC 1301 (Intro to Computer Science)	3
MRKG 1311 (Principles of Marketing)	3
IMED 1341 (Interface Design)	3
BUSI 1301 (Business Principles)	3
ITSC 1309 (Integrated Software Applications)	3
BUSG 1304 (Financial Literacy)	3
	18

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSW 2337 - Advanced Database

Advanced concepts of database design and functionality.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [ITSW 1307](#) - Introduction to Database

Computer Technology

ITSW 2383 - Cooperative Education - Management Information Systems and Business Data Process

An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Restrictions:

- Sophomore standing or consent of instructor.
 - This course requires 283 hours of lab work.
-

ITSW 2437 - Advanced Database

Advanced concepts of database design and functionality.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology)	3
Elective*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Elective*	3
*Mathematics/Life & Physical Science Core	3
SPCH 1311 (Introduction to Speech Communication)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Elective*	3
*Language, Philosophy, Culture/Creative Arts	3
CPMT 2345 (Computer Systems Troubleshooting)	3
CPMT 1349 (Computer Networking Technology)	3
Elective*	3
ITSC 1316 (Linux Installation and Configuration)	3
*Social & Behavioral Science Core	3

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309. ITSY 2317, ITNW 2355, ITSC 1342, ITSC 2325

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

2 Year Certificate Programs

Subject	Semester Hours
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1311 (Intro to Computer Maintenance)	3

ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
ITSC 2339 (Personal Computer Help Desk)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITNW 1308 (Implementing and Supporting Client Operating Systems)	3
CPMT 1349 (Computer Networking Technology)	3
CPMT 2345 (Computer Systems Troubleshooting)	3
ITNW 2305 (Network Administration)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
EECT 1407 (Convergent Technologies)	4
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1303 (Intro to Computer Technology)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3
ITSC 1416 (Linux Installation and Configuration)	4
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)	3
CPMT 1349 (Computer Networking Technology)	3
ITNW 2305 (Network Administration)	3
CPMT 2345 (Computer Systems Troubleshooting)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 2339 (Personal Computer Help Desk)	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSY 1300 - Fundamentals of Information Security

An introduction to Information security including vocabulary and terminology, ethics, the legal environment and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is discussed.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSY 2317 - Wireless Security Development

Development of information security policies, standards, and guidelines for an organization. Includes Demilitarized Zone (DMZ), antivirus, Virtual Private Network (VPN), wireless communications, remote access, and other critical administrative and operational security policies. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. Emphasizes wireless security goals of availability, integrity, accuracy, and confidentiality in the design, planning, implementing, operating, and troubleshooting of wireless LAN along with appropriate planning and administrative controls.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

ITSY 2343 - Computer System Forensics

In-depth study of system forensics including methodologies used for analysis of computer security breaches. Gather and evaluate evidence to perform postmortem analysis of a security breach.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Learning Skills

LSKL 0032 - Non-Course Based Remediation

Non-course based remediation designed for the developmental students seeking support for course work and/or assistance with test preparation. Intervention strategies include peer tutoring, multi-media instruction, and seminars. As in learning skills courses and labs, this non-course based remediation cannot substitute for the required course/lab in the specific skill area, i.e. reading, writing and math. To be arranged in time and format under the direction of LAC staff.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

LSKL 0115 - Learning Skills Laboratory I

Learning program designed for self-improvement in study skills and classroom learning strategies. Topics include note-taking, time-management, goal-setting, and test-taking. Teaching methods include workshops, discussion, multimedia instruction, and computerized learning styles analysis.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 1.0

LSKL 0215 - Learning Skills Laboratory II

Individualized learning program for self-improvement in study skills and classroom learning. Topics include note-taking, preparing for exams, goal-setting, and research paper skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lab hours: 2.0

LSKL 0300 - Learning Skills Laboratory II

Emphasis on coping with the demands of a college environment and developing classroom behaviors and study habits that lead to success. Topics covered include setting goals, managing time, handling stress, taking notes, marking textbooks, and passing exams.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lab hours: 3.0

Mathematics

Overview

Program Description

To paraphrase Galileo, "Mathematics is the language in which the laws of nature are written" and the laws of society and economics as well. In recent years, applications of mathematics have expanded far beyond the traditional boundaries of physics, chemistry, and engineering. Biologists, sociologists, economists, psychologists, and even historians and lawyers have reached out to mathematicians in their quest for indisputable conclusions and novel methods of investigation. Thus, pure and applied mathematicians are and always will be in demand.

Grayson College offers an Associate of Science in Mathematics. This program opens the door to an attractive future for students who want to prepare for careers in fields requiring a solid background in quantitative analysis, transfer to university, or to teach mathematics at various levels.

Program Mission Statement

The Department of Mathematics seeks to ensure that all students are given a basic understanding of mathematical reasoning and some experience of its application. More advanced techniques and interpretative skills are taught to those whose chosen disciplines require them. The Mathematics Department offers courses of study that initiate students into the active practice and use of mathematics. Mathematics majors are provided with the background necessary to pursue careers in industry, to teach in the secondary schools, or to succeed in further study.

Program Philosophy

It is the belief of the Mathematics staff of Grayson College that mathematics is one of the fundamental skills of learning. The basics of mathematics, along with other essential communication skills, are ingredients that cannot be excluded from any student's formal training. We recognize qualitative literacy as being necessary for survival in a rapidly changing technological society. It is therefore agreed that despite the differences that exist in learning potential or individual student's achievement, there are certain common goals for all students in mathematics: the development of problem-solving and critical thinking skills; the facility to analyze data, make quantitative and qualitative comparisons, identify trends, and make valid conclusions and predictions; the capacity to make estimates and recognize reasonable results. We regard the skills of mathematics as part of being an educated person and critical to academic training and employment. Furthermore, we consider cooperation with the community, industry, and those in higher education essential in the development and delivery of a mathematics program which effectively educates our citizens and communicates the need for this education to all.

AAS Degree Requirements

Associate of Science - Mathematics

Subject	Semester Hours
* EDUC/PSYC 1300 or Component Area Option 1	3
*Language, Philosophy & Culture Core	3
ENGL 1301 (Composition I)	3
HIST 1301 (United States History I)	3
MATH 2312 (Pre-Calculus)	3
MATH 2413 (Calculus I)	4
ENGL 1302 (Composition II)	3
*Life & Physical Sciences Core	3
Science Lab	1
HIST 1302 (United States History II)	3
*Creative Arts Core	3
*Social & Behavioral Sciences Core	3
MATH 2414 (Calculus II)	4
*Life & Physical Science Core	3
Science Lab	1
GOVT 2305 (Federal Government)	3

GOVT 2306 (Texas Government)	3
MATH 2415 (Calculus III)	4
MATH 2320 (Differential Equations)	3
MATH 2318 (Linear Algebra)	3
*Academic Elective**	1

Students are encouraged to select electives that meet the graduation requirement of the senior institution.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

MATH 0120 - Mathematical Literacy Lab

This course is designed to supplement the concepts learned in MATH 1332 and MATH 1342. Concurrent enrollment in one of these classes is required.

Upon completion, students will be able to:

- Supplement the concepts learned in MATH 1332 and MATH 1342

Grade Basis: P

Lecture hours: 1.0

Lab hours: 1.0

Restrictions:

- Must take with MATH 1332 or MATH 1342
-

MATH 0140 - Transition to College Algebra

This course is designed to prepare students for College Algebra. Concurrent enrollment in MATH 0340 is required. This course supplements the concepts learned in MATH 0340.

Upon completion, students will be able to:

- Supplement the concepts learned in MATH 0340

Grade Basis: ALP

Lecture hours: 1.0

Lab hours: 1.0

Restrictions:

- Concurrent enrollment in MATH 0340 is required
-

MATH 0240 - Transition to College Algebra Lab

This course is designed to supplement the concepts learned in College Algebra.

Upon completion, students will be able to:

- supplement the concepts learned in College Algebra.

Grade Basis: P

Lab hours: 2.0

Restrictions:

- Concurrent enrollment in MATH 1314 is required.
-

MATH 0420 - Mathematical Literacy for College Students

The course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and

problem solving. A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.

Upon completion, students will be able to:

- This course is designed to prepare students for Contemporary Mathematics I, Elementary Statistics, or Transition to College Algebra.

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1314 - College Algebra

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Prerequisite: MATH 0330, MATH 0340 or equivalent. A grade of C or better must be earned to progress to a Math course that uses this course as a pre requisite. (M)

Upon completion, students will be able to:

- In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1316 - Plane Trigonometry

In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. Prerequisite: two years of high school algebra or MATH 1314. A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite. (RM)

Upon completion, students will be able to:

- In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1324 - Mathematics for Business and Social Sciences I

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addresses. The application include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming, and probability, including expected value.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- Meet TSI college-readiness standard for mathematics; or equivalent
-

MATH 1325 - Mathematics for Business and Social Sciences II

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute

Upon completion, students will be able to:

- To teach Mathematics used in Business and Social Sciences

Grade Basis: ALP
Credit hours: 3.0
Lecture hours: 3.0
Prerequisites:

- [MATH 1314](#) - College Algebra
 - [MATH 1324](#) - Mathematics for Business and Social Sciences I
-

MATH 1332 - Contemporary Mathematics

Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP
Credit hours: 3.0
Lecture hours: 3.0

MATH 1342 - Elementary Statistical Methods

Elementary Statistical Methods. (3-0-3). Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. (RM)

Upon completion, students will be able to:

- Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

Grade Basis: ALP
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0
Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1350 - Mathematics for Teachers I

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the conceptual development of the following: sets, functions, numeration systems, number theory, and properties of the various number systems with an emphasis on problem solving and critical thinking.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1351 - Mathematics for Teachers II

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the concepts of geometry, measurement, probability, and statistics with an emphasis on problem solving and critical thinking.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 2305 - Discrete Mathematics

A course designed to prepare math, computer science, and engineering majors for a background in abstraction, notation, and critical thinking for the mathematics most directly related to computer science. Topics include: logic, relations, functions, basic set theory, count ability and counting arguments, proof techniques, mathematical induction, combinatorics, discrete probability, recursion, sequence and recurrence, elementary number theory, graph theory, and mathematical proof techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 2413](#) - Calculus I
-

MATH 2312 - Pre-Calculus Math

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. A grade of C or better must be earned to progress to a Math course that uses this course as a prerequisite.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 2318 - Linear Algebra

Introduces and provides models for application of the concepts of vector algebra. Topics include finite dimensional vector spaces and their geometric significance; representing and solving systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion; matrices; determinants; linear transformations; quadratic forms; eigenvalues and eigenvector; and applications in science and engineering.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

MATH 2320 - Differential Equations

Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems; application of differential equations to real-world problems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [MATH 2414](#) - Calculus II
-

MATH 2413 - Calculus I

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Prerequisites:

- [MATH 2312](#) - Pre-Calculus Math

MATH 2414 - Calculus II

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Prerequisites:

- [MATH 2413](#) - Calculus I

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 2415 - Calculus III

Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem. A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Prerequisites:

- [MATH 2414](#) - Calculus II
-

MATH 2421 - Differential Equations and Linear Algebra

This course emphasizes solution techniques. Ordinary differential equations, vector spaces, linear transformations, matrix/vector algebra, eigenvectors, Laplace Transform, and systems of equations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- Requires Up to 12 SCH of calculus
-

Advanced Manufacturing

Overview

Advanced manufacturing technology is used in automated fabrication machinery (robotics) that require skilled technicians to design, program, service and repair. Mechatronics refers to the combination of **mechanics** and **electronics**.

Our hands-on Advanced Manufacturing programs prepare you to go to work as an entry-level service technician, diagnosing, servicing and repairing automated systems. Advanced manufacturing skills are also an excellent supplement to related areas such as electronics and engineering.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303 (Technical Calculations)	3
EDUC 1300 (Learning Frameworks)	3
* CRIJ 1307 or HIST 1301	3
MATH 1332 (Contemporary Mathematics)	3
MCHN 1320 (Precision Tools and Measurements)	3
ELPT 1311 (Fundamentals of Electricity)	3
MCHN 1302 (Print Reading for Machine Trade)	3
ENGL 1301 (Composition I)	3
* ARTS 1301 or PHIL 1301	3
MCHN 1371 (Manufacturing Skills Standards)	3
QCTC 1343 Quality Assurance)	3
MCHN 1438 (Basic Machine Shop I)	4
MCHN 1454	4
ELPT 2319 (Programmable Logic Controllers I)	3
MCHN 1326 (Intro to Computer Aided Manufacturing)	3
INMT 1391 (Special Topics in Manufacturing Tech.)	3
ELPT 1441 (Motor Control)	4
INMT 2688 (Internship-Manufacturing Technology/ Technician)	6

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
TECH 1303 (Technical Calculations)	3
MCHN 1320 (Prec Tools & Measure)	3
ELPT 1311 (Basic Electrical Theory)	3
MCHN 1302 (Print Rdng for Mchn)	3
MCHN 1371 (MSSC Local Needs)	3
QCTC 1343 (Quality Assurance)	3
MCHN 1438 (Basic Mch Shop I)	4
ELPT 2319 (PLC'S I)	3
MCHN 1326 (CAM)	3
INMT 1391 (Spec Top in Mfg Technology)	3
ELPT 1441 (Motor Controls)	4
INMT 2688 (Internship Mfg Tech)	6
	41

Mechatronics Technician Certificate

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
WLDG 1421 (Intro to Welding Fundamentals)	4
HART 1407 (Refrigeration Principles)	4
DFTG 1405 (Technical Drafting)	4
	<hr/> 16

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

MCHN 1302 - Print Reading for Machining Trades

A study of blueprints for machining trades with emphasis on machine drawings.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

MCHN 1320 - Precision Tools and Measurement

An introduction to the modern science of dimensional metrology. Emphasis on the identification, selection, and application of various types of precision instruments associated with the machining trade. Practice of basic layout and piece part measurements while using standard measuring tools.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

MCHN 1326 - Introduction to Computer Aided manufacturing

A study of Computer-Aided manufacturing (CAM) software which is used to develop applications in manufacturing. Emphasis on tool geometry, tool selection and the tool library.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

MCHN 1371 - Manufacturing Skills Standards Council Certification

A course that is focused on the core skills and knowledge needed by the nation's front-line production and material handling workers. Addresses core technical competencies of higher skilled production workers in all sectors of manufacturing (Safety, Quality Practices & Measurement, and Manufacturing Processes & Production)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

MCHN 1438 - Basic Machine Shop I

A course that introduces the student to machining fundamentals. The student will use basic machine tools including the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventative maintenance.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Medical Laboratory Technology

Overview

The Medical Laboratory Technology program prepares the student, by formal instruction and clinical experience, to perform laboratory procedures that aid physicians, pathologists and other healthcare providers, in the diagnosis and treatment of disease in the hospital, clinic or research laboratory. Upon completion of the program, students receive an Associate of Applied Science Degree and are eligible to take the national certification exams.

If you are interested in obtaining a phlebotomy certificate only, please click on the certificate tab above.

Specific Program Requirements

1. Science courses must have been completed within the past five (5) years. Exceptions may be made by the Medical Laboratory Technology (MLT) Program Director.
2. Students must complete all MLAB courses within a three year period in order to graduate.

This program prepares the medical laboratory technician by formal instruction and clinical experience to perform laboratory procedures which aid physicians and pathologists in the diagnosis and treatment of disease in the hospital, clinic, or research laboratory.

Upon completion of this program, students receive an Associate of Applied Science Degrees and may be eligible to take national certification examinations such as that administered by the American Society for Clinical Pathology (ASCP) Board of Certification.

Admission Information

The entry date for the MLT program is generally the fall semester of each year, but arrangements can sometimes be made for a spring entry also. An alternative curriculum sequence may be arranged for students having completed academic requirements other than MLAB courses. For fall entry, applications should be submitted to the MLT Program Director by March 1 for early acceptance or until class is full for late acceptance. For spring entry, applications should be submitted by November 1 for early acceptance and by January 1 for late acceptance. Applications will be taken until the class is filled. Class size is limited by availability of clinical sites.

Transcripts (college) and passing level TSI assessment test scores should be included with the application.

Admission Criteria

1. The Health Science Division application for Medical Laboratory Technology should be submitted to the Program Director.
2. TSI test scores for assessment purposes should be submitted with the application.
3. Overall GPA of 2.0 or higher is required for all college courses completed.
4. Applicants must meet certain essential functions as defined by The National Accrediting Agency for Clinical Laboratory Science (NAACLS). The nonacademic criteria (essential functions) which all MLT applicants are expected to meet are listed in the medical lab tech packet.

5. Applicants must make an appointment to meet with the Program Director prior to acceptance. The program director can be contacted at 903-463-8684. All applications will be accepted through the health science department or directly to the program director.

Required Immunizations

All Students must submit a copy of the records of the following immunizations with a validation stamp or signature, a signed statement from a physician, or lab report indicating serologic confirmation.

Please note that some of these immunizations take up to six months to complete.

Immunizations must be started in time to complete the series before the beginning of the semester. If unable to complete the series before the beginning of the first clinical, the applicant is not eligible for admission.

1. TETANUS/DIPHTHERIA/PERTUSSIS (Tdap) (Immunization)

One dose of Tetanus/diphtheria/pertussis (Tdap) immunization within the last 10 years.

2. MEASLES, MUMPS, RUBELLA (MMR) (Immunizations or Blood Test)

If born after January 1, 1957, you must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart - or - proof of serologic confirmation of measles, mumps and rubella immunity - or - serologic evidence of infection.

3. VARICELLA (Chickenpox) (Immunization or Blood Test)

Serologic confirmation of varicella immunity - or - varicella vaccine - two doses are required 4-8 weeks apart.

4. HEPATITIS B (Immunization or Blood Test)

Series of three hepatitis B vaccines - or - serologic confirmation of immunity to hepatitis B

5. INFLUENZA VACCINE

Annual influenza vaccination with the most up-to-date strains predicted on the basis of viral surveillance data is required.

6. MENINGOCOCCAL VACCINE

All on-campus college students who are under the age of 22 must have the meningococcal vaccination within the previous five years and at least 10 days prior to the first day of class.

* Due to compliance with clinical facility requirements and Texas Department of State Health Services recommendations, Grayson College Health Science programs may not waive immunization requirements for any reason. If immunizations are not complete, clinical

courses for the program must be delayed. Copies of records from physician's offices, public health department, public schools, other colleges, and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Selection and Acceptance

There are no pre-requisite courses that must be completed prior to acceptance into the MLT program. Applicants are accepted into the program once the Admission Criteria is met until the class is full. The number of students who can be admitted to the MLT Program is limited by the number of available clinical facilities.

When the maximum number is reached, additional applicants will be placed on a waiting list. Applicant will receive a letter stating acceptance to the program.

Additional Program Information

MLAB 2660 and MLAB 2661, the major clinical components of the program may be offered in both the Fall and Spring Semesters. Students will be assigned to these clinical rotations based on availability of space and GPA of all required MLT courses. Students may be required to commute to a clinical site outside Grayson County if there are not enough local facilities available.

Employees of the Clinical Affiliates serve as Clinical Coordinators and Clinical Instructors.

Prior to clinical course rotations, students must pass a drug screen test and criminal background check (at the student's expense and completed as scheduled through a GC approved company). Criteria that prevent attendance at clinical sites and/or require withdrawal from the course are stipulated in the related GC Health Science policy.

Students who have been involved in the criminal justice system may not be eligible for licensure following graduation. If you feel this applies to you, please seek guidance from the program director or Health Science advisor prior to enrollment.

Students who are certified phlebotomists, or have recent documented experience as a phlebotomist may request credit for PLAB1223 and PLAB 1160 or PLAB 1161. Upon completion of adequate phlebotomy skills, such credit may be awarded. Each request will be considered individually and must be approved by the MLT Program Director.

Documentation required by the State of Texas to provide proof of Immunization; proof of immunity, results of a TB test, and the completed medical statement, must be submitted prior to start of class.

Proof of current American Heart Association(AHA) BLS CPR training must be provided before attending clinicals.

Contact information regarding program approval and accreditation:

**National Accrediting Agency for
Clinical Laboratory Science**
5600 N. River Rd. Suite 720
Rosemont, IL 60018
(773) 714-8880
<http://www.naacls.org>

application information

Packet: [Medical Lab Tech Packet](#)

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
MLAB 1291 (Special Topics MLT)	2
MLAB 1201 (Introduction to Clinical Laboratory Science)	2
MLAB 1335 (Immunology/Serology)	3
PLAB 1160 (Phlebotomy Clinical)	1
ENGL 1301 (Composition I)	3
PLAB 1223 (Phlebotomy)	2
MLAB 2331 (Immunoematology)	3
MLAB 1315 (Hematology)	3
MLAB 1127 (Coagulation)	1
MLAB 1311 (Urinalysis and Body Fluids)	3
MLAB 1231 (Parasitology/Mycology)	2
*Humanities/Fine Arts	3
* SPCH 1311 , 1315 or 1321	3
BIOL 2404 (Anatomy and Physiology)	4
MLAB 2434 (Clinical Microbiology)	4
MLAB 2401 (Clinical Chemistry)	4
MLAB 2238 (Advanced Topics in MLT)	2
PSYC 2301 (General Psychology)	3
MLAB 2660 (Clinical II)	6
MLAB 2661 (Clinical III)	6
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	60

Capstone Requirement: All students must successfully complete MLAB 2660 and MLAB 2661 prior to graduation. To fulfill the capstone requirement.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Outcomes

NAACLS-MLT Pass Rates:

Graduation School Year	MLT(ASCP) Board of Certification (BOC) Pass Rates
2014-2015	86%
2015-2016	75%
2016-2017	86%
2017-2018	Collecting Data
Three Year Average	81%

Job Placement Rates (Three-Year Average: 97%)

Second Half of Program Attrition Rates: 95%

Phlebotomy Certificate

Phlebotomy Certificate for Non-MLTs

Consists of two courses, a lecture and two clinicals. Together they are designed to prepare students to:

- Perform the duties of a phlebotomist in a variety of health care settings
- Take a national certification exam.

Certificate classes meet at the college's Van Alstyne campus from 8 a.m. until 12:50 p.m. for 16 weeks. Clinical experience is an 8-hour per week rotation at one of the area hospitals. Selection of clinical sites may require travel. These are usually 4-hour rotations twice each week or one 8-hour rotation scheduled between 5 a.m. and 8 p.m. Monday through Friday only. Following program completion, the graduate will be eligible to take a national certification exam such as the one administered by the American Society for Clinical Pathology Board of Certification. Upon passing the exam, the graduate will be certified as a Phlebotomy Technician, PBT (ASCP).

Subject	Semester Hours
PLAB 1160 (Clinical I)	1
PLAB 1161 (Clinical II)	1
PLAB 1223 (Phlebotomy)	2
	4

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

MLAB 1127 - Coagulation.

Includes quality control, quality assurance, safety and laboratory procedures which rely on commonly performed manual and semi-automated methods.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Restrictions:

- A grade of "C" or better is required for graduation.

MLAB 1201 - Introduction to Clinical Laboratory Science

An introduction to clinical laboratory science, including quality control, laboratory math, safety, laboratory equipment, laboratory settings, accreditation, certification, professionalism, and ethics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Restrictions:

- A grade of "C" or better is required for graduation.
 - Acceptance into MLT-AAS Program required
-

MLAB 1231 - Parasitology/Mycology

A study of the taxonomy, morphology, and pathogenesis of human parasites and fungi, including the practical application of laboratory procedures, quality control, quality assurance, and safety.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1291 - Special Topics MLT

An introductory study to include fundamental microbiology concepts and skills, basic mathematics, and elementary chemistry as they apply specifically to medical laboratory science.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 1.0

MLAB 1311 - Urinalysis and Body Fluids

An introduction to urinalysis and body fluid analysis includes the anatomy and physiology of the kidney, physical, chemical and microscopic examination of urine, cerebrospinal fluid, and other body fluids as well as quality control, quality assurance and safety.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.

MLAB 1315 - Hematology

The study of blood cells in normal and abnormal conditions. Instruction in the theory and practical application of hematology procedures, including quality control, quality assurance, safety, manual and/or automated methods; red blood cells and white blood cells as well as blood cell maturation sequences, and normal and abnormal morphology and associated diseases.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1335 - Immunology/Serology

An introduction to the theory and application of basic immunology, including the immune response, principles of antigen-antibody reactions, and the principles of serological procedures as well as quality control, quality assurance, and safety.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 2238 - Advanced Topics in Medical Laboratory Technician

A review course for Medical Laboratory Technology students covering all topics offered in MLT courses. The course examines the integration of all areas of the clinical laboratory and correlates laboratory test data with diagnostic applications and pathophysiology using critical thinking skills. An exam will be given at the end of the course, which must be passed to continue in the program.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- All MLT courses must be completed or taken concurrently with a grade of "C" or better within program requirements.
-

MLAB 2331 - Immunoematology

A study of blood group antigens and antibodies. Presents quality control, basic laboratory technique and safety. Includes the principles, procedures and clinical significance of test results in genetics, blood group systems, pre-transfusion testing, adverse effects of transfusions, donor selection and components, and hemolytic disease of the newborn.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [MLAB 1335](#) - Immunology/Serology

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 2401 - Clinical Chemistry

An introduction to the principles and procedures of various tests performed on Clinical Chemistry. Presents the physiological basis for the test, the principle and procedure for the test and the clinical significance of the test results, including quality control and normal values. Also includes basic chemical laboratory technique, chemical laboratory safety, electrolytes and acid-base balance, proteins, carbohydrates, lipids, enzymes, metabolites, endocrine function, and toxicology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 6.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 2434 - Clinical Microbiology

Instruction in the theory, practical application, and pathogenesis of clinical microbiology, including collection, quality control, quality assurance, safety, setup, identification, susceptibility testing, and reporting results.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lecture hours: 3.0

Lab hours: 6.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 2660 - Clinical II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision, clinical instruction and evaluation is provided by the clinical professional. Students perform laboratory procedures in assigned departments of the clinical laboratory. Departmental rotations

include hematology, coagulation, advanced hematology, blood bank, serology, chemistry, and microbiology. Phlebotomy experience will be arranged. A weekly clinical conference will be scheduled.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 6.0

Prerequisites:

- [MLAB 2238](#) - Advanced Topics in Medical Laboratory Technician

Restrictions:

- Concurrent enrollment in MLAB 2661 required.
 - This course requires 18 lab hours.
-

MLAB 2661 - Clinical III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision, clinical instruction and evaluation is provided by the clinical professional. Students perform laboratory procedures in assigned departments of the clinical laboratory. Departmental rotations include hematology, coagulation, advanced hematology, blood bank, serology, chemistry, and microbiology. Phlebotomy experience will be arranged. A weekly clinical conference will be scheduled.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 6.0

Prerequisites:

- [MLAB 2238](#) - Advanced Topics in Medical Laboratory Technician

Restrictions:

- All MLT courses must be completed with a grade of “C” or better within program requirements.
 - Concurrent enrollment in MLAB 2660 required.
-

Viticulture and Enology

Overview

The grape and wine industry is rapidly growing in Texas and across the United States. The Viticulture and Enology Program at Grayson is designed to prepare students for a variety of career opportunities including starting a commercial vineyard and winery and is part of the **Business & Industry Career Pathway**. Most courses are offered as hybrid with a combination of Internet and weekend classroom instruction. This accommodates students who cannot commit to traditional weekday classes without sacrificing hands-on learning. The Viticulture and Enology Program maintains a 3-acre vineyard, an extensive wine laboratory, and an instructional winery. All serve as an excellent learning resources for students.

The Viticulture and Enology Program offers the convenience of Internet instruction combined with weekend class meetings. A typical 3 credit hour course meets two weekends (Saturday & Sunday) a semester and the remainder of the course material is delivered through Canvas, Grayson’s Internet teaching platform. This format accommodates those who cannot commit to traditional weekday classes without sacrificing hands-on winemaking and grape growing. The Viticulture and Enology Program is housed in the T.V. Munson Viticulture and Enology Center on Grayson College’s West Extension of campus. The T.V. Munson Center contains a large classroom, an extensive wine laboratory, and an instructional winery. Just down the hill from the T.V. Munson Center is the T.V. Munson Memorial Vineyard which is planted to 3 acres of various grape varieties including over 60 of the original varieties bred by T.V. Munson, and other hybrid and vinifera grapes. Both the vineyard and the winery serve as an excellent learning tool for students in the Viticulture and Enology Program. The Viticulture Program and Enology Program also offers one-day outreach seminars and workshops at various locations across the state. These programs focus topics of specific interest to the grape and wine industry, as well as programming that’s geared toward new and future industry

members. Upcoming outreach programs can be found on the Viticulture and Enology Program Continuing Education page.

Course Requirements

The Viticulture & Enology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Degree in Viticulture and Enology requires that you meet TSI requirements.

Facilities and Location

As an instructional site, the T.V. Munson Center's 5,000-square-foot facility houses a library for research documents and historic memorabilia; classroom and office space; workroom facilities for processing grape plants, juice and wine. Additionally, the Center has classrooms for the delivery of lectures, seminars, workshops and demonstrations. As a repository and research site, the Viticulture and Enology Center houses an extensive set of written materials related to viticulture and enology. Among these documents are historical materials written about, and by, T.V. Munson regarding the breeding of grapes native to this area of the world. The GC Viticulture & Enology Center rests on five acres of land on the College's West Campus—Extension. The Center's hilltop view overlooks the T.V. Munson Memorial Vineyard and is a short one-hour drive from the DFW Metroplex.

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
FDST 1323 (Principles of Viticulture I)	3
*Social & Behavioral Science Core	3
FDST 1370 (Grapevine Biology)	3
ENGL 1301 (Composition I)	3
*Mathematics/Life & Physical Core	3
FDST 2320 (Principles of Viticulture II)	3
MRKG 1191 (Wine Marketing)	1
*Lang, Phil, Culture/Creative Arts Core	3
*Mathematics/Life & Physical Science Core	3
*Social and Behavioral Science Core	3
FDST 1320 (Principles of Enology I)	3
*Lang, Phil, Culture/Creative Arts Core	3
* SPCH 1311 , 1315 , or 1321	3
FDST 2371 (Grape and Wine Chemistry)	3
FDST 2433 (Wine Types and Sensory Evaluation)	4
FDST 2319 (Principles of Enology II)	3
FDST 2330 (Analysis of Must and Wine)	3
*Elective	5
FDST 2286 (Internship-Food Science)	2
*Social & Behavioral Science Core	3

*Elective must be approved by program coordinator.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Enology Certificate

Subject	Semester Hours
FDST 1320 (Principles of Enology I)	3
FDST 2371 (Grape and Wine Chemistry)	3
*Mathematics/Life & Physical Science Core	3
FDST 2319 (Principles of Enology II)	3

FDST 2330 (Analysis of Must and Wine)	3
FDST 2286 (Internship-Food Science)	2

Viticulture Certificate

Subject	Semester Hours
FDST 1323 (Principles of Viticulture I)	3
FDST 1370 (Grapevine Biology)	3
*Mathematics/Life & Physical Science Core	3
FDST 2320 (Principles of Viticulture II)	3
FDST 2371 (Grape and Wine Chemistry)	3
FDST 2286 (Internship-Food Science)	2

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

MRKG 1191 - Wine Marketing

Marketing principles, marketing audit, developing a marketing plan, product, promotion, pricing, place and developing new markets.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

MRKG 1200 - Customer Service

Introduction of techniques to create excellent customer service.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (U.S. History I)	3
ENGL 1301 (Composition I)	3
MATH 1324 (Math for Business I) or higher	3
MATH 1325 (Math for Business II) or higher	3
SPCH 1321 (Business & Professional Communication)	1
HIST 1302 (U.S. History II)	3
ENGL 1301 (Composition II)	3
*Component Area Option	3
ACCT 2301 (Principles of Financial Acct.)	3
HUMA 1301 (Intro to Humanities I) or Huma 1302 (Intro to Humanities II)	3
GOVT 2305 (Federal Government)	1
GEOL 1301 (Earth Sciences)	1
GEOL 1101 (Earth Sciences Lab I)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2301 (Principles of Financial Acct.)	3
ECON 2301 (Principles of Macroeconomics I)	3
ACCT 2302 (Principles of Managerial Accounting)	3
GOVT 2306 (Texas Government)	3
ARTS 1301 or DRAM or MUSI 1306	3
BIOL 1308 (Biol for Non-Science Majors)	3
BIOL 1108 (Biol Lab for Non-Science Majors)	1
	60

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
ACNT 1304 (Intro to Accounting II)	3
BGMT 1305 (Communications in Management)	3
BGMT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1321 or SPCH 1311	3
BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
*Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Business and Society - Capstone)	3
*Language, Philosophy & Culture Core	3
60	

Note: All science courses at Grayson College must be taken with their corresponding labs.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304 (Intro to Accounting II)	3
BMGT 1305 (Communications in Management)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
* SPCH 1311 or 1321	3

BUSG 2305 (Business Law/Contracts)	3
* MRKG 1302 , 1311 or 2333	3
HRPO 2301 (Human Resource Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Acct.)	3
Capstone Exam	

31

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303 (Intro to Accounting I)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
Certificate Capstone Exam	

15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302 (Principles of Retailing)	3
MRKG 1311 (Principles of Marketing)	3
MRKG 2333 (Principles of Selling)	3

9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I

ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

MRKG 1302 - Principles of Retailing

Introduction to the retailing environment and its relationship to consumer demographics, trends, and traditional/nontraditional retailing markets. The employment of retailing techniques and the factors that influence modern retailing.

Upon completion, students will be able to:

- Understand consumer demographics, trends, and traditional/nontraditional retailing markets. The employment of retailing techniques and the factors that influence modern retailing.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MRKG 1311 - Principles of Marketing

Introduction to basic marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues; and description and analysis of the importance of marketing research.

Upon completion, students will be able to:

- Understand basic marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MRKG 2333 - Principles of Selling

Overview of the selling process. Identification of the elements of the communication process between buyers and sellers and examination of the legal and ethical issues of organizations which affect salespeople.

Upon completion, students will be able to:

- Identify of the elements of the communication process between buyers and sellers and examination of the legal and ethical issues of organizations which affect salespeople

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Music

Overview

The **Music AA degree** at Grayson College is designed for transfer to four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Art degree in Music.

In addition to a degree, Grayson College also offers a **Marketable Skills Award in Audio Engineering**, which is designed to be your first step toward a career as an audio engineer, producer, recording artist, live sound technician, film/video game composer, songwriter, or sound designer. The courses in this award are intended to provide a foundational understanding of music theory, music technology, and the field of commercial music.

This award can be taken by non-music majors who are interested in pursuing a career in commercial music or by music majors intending to transfer to four-year programs in composition, audio engineering, music technology, or theatre tech.

This Award, in conjunction with an Associate of Arts degree in Music, prepares you to become a musician fluent with music technology. Whether you are planning to be a professional classical musician or work in commercial music, the Grayson College Marketable Skills Award in Audio Engineering will give you the foundation you need to harness your creativity.

AA Degree Requirements

Associate of Arts - Music

Subject	Semester Hours
MUSI 1311 (Music Theory I)	3
MUSI 1116 (Sight Singing & Ear Training I)	1
MUSI 1181 (Piano Class I)	1
MUAP 12XX (Freshman 60 Minute Lessons)	2
MUEN 11XX	1
* EDUC/PSYC 1300 or Component Area Option 1	3
MUSI 1307 (Music Literature)	3
MUSI 1312 (Music Theory II)	3
MUSI 1117 (Sight Singing & Ear Training II)	1
MUSI 1182 (Piano Class II)	1
MUAP 12XX (Freshman 60 Minute Lessons)	2
*MUEN 11XX or MUSI 1157	1
* HIST 1301 or 1302	3
* SPCH 1311 , 1315 or 1321	3
*Mathematics Core	3
MUSI 2311 (Music Theory III)	3
MUSI 2116 (Sight Singing & Ear Training III)	1
MUSI 2181 (Piano Class III)	1
MUAP 22XX (Sophomore 60 Minute Lessons)	2
MUEN 21XX	1
* GOVT 2305 or 2306	3
ENGL 1301 (Composition I)	3
MUSI 2312 (Music Theory IV)	3
MUSI 2117 (Sight Singing & Ear Training IV)	1
MUSI 2182 (Piano Class IV)	1
MUAP 22XX (Sophomore 60 Minute Lessons)	2
*MUEN 21XX or MUSI 1157	1
*Life & Physical Science Core	3
Science Lab	1
ENGL 1302 (Composition II)	3

Note: The AA in Music is a field of study degree and does not include the entire required core. Students are encouraged to take the remaining core courses before transferring.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Audio Engineering Marketable Skills Award

Audio Engineering Marketable Skills Award

Subject	Semester Hours
MUSC 1327 (Audio Engineering I)	3
MUSC 1213	2
MUSC 2327 (Audio Engineering II)	3
MUSB 1305 (Survey of Music Business)	3
MUSC 1321 (Songwriting I)	3

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II

DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

MUAP 11XX - Freshmen 30 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 30-minute lesson each week. One half hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "1" in the course titles below indicate freshman-level classes).

Upon completion, students will be able to:

- See course restrictions for specific instrument course number

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

Restrictions:

- MUAP 1101 Violin 1
- MUAP 1105 Viola 1
- MUAP 1109 Cello 1
- MUAP 1113 Double Bass 1
- MUAP 1115 Electric Bass 1
- MUAP 1117 Flute 1
- MUAP 1121 Oboe 1
- MUAP 1125 Bassoon 1
- MUAP 1129 Clarinet 1
- MUAP 1133 Saxophone 1
- MUAP 1137 Trumpet 1
- MUAP 1141 French Horn 1
- MUAP 1145 Trombone 1
- MUAP 1153 Tuba 1
- MUAP 1158 Percussion 1
- MUAP 1161 Guitar 1
- MUAP 1169 Piano 1
- MUAP 1170 Jazz Piano 1
- MUAP 1181 Voice 1
- MUAP 1187 Composition 1

MUAP 12XX - Freshmen 60 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 60-minute lesson each week. One hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music

composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "1" in the course titles below indicate freshman-level classes).

Upon completion, students will be able to:

- See course restrictions for specific instrument course number

Grade Basis: L

Credit hours: 2.0

Lab hours: 2.0

Restrictions:

- MUAP 1201 Violin 1
- MUAP 1205 Viola 1
- MUAP 1209 Cello 1
- MUAP 1213 Double Bass 1
- MUAP 1215 Electric Bass 1
- MUAP 1217 Flute 1
- MUAP 1221 Oboe 1
- MUAP 1225 Bassoon 1
- MUAP 1229 Clarinet 1
- MUAP 1233 Saxophone 1
- MUAP 1237 Trumpet 1
- MUAP 1241 French Horn 1
- MUAP 1245 Trombone 1
- MUAP 1253 Tuba 1
- MUAP 1258 Percussion 1
- MUAP 1261 Guitar 1
- MUAP 1269 Piano 1
- MUAP 1270 Jazz Piano 1
- MUAP 1281 Voice 1
- MUAP 1287 Composition 1

MUAP 21XX - Sophomore 30 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 30-minute lesson each week. One half hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "2" in the course titles below indicate sophomore-level classes).

Upon completion, students will be able to:

- See course restrictions for specific instrument course number

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

Restrictions:

- MUAP 2101 Violin 2
- MUAP 2105 Viola 2
- MUAP 2109 Cello 2
- MUAP 2113 Double Bass 2
- MUAP 2115 Electric Bass 2
- MUAP 2117 Flute 2
- MUAP 2121 Oboe 2
- MUAP 2125 Bassoon 2
- MUAP 2129 Clarinet 2
- MUAP 2133 Saxophone 2
- MUAP 2137 Trumpet 2
- MUAP 2141 French Horn 2
- MUAP 2145 Trombone 2
- MUAP 2153 Tuba 2
- MUAP 2158 Percussion 2
- MUAP 2161 Guitar 2

- MUAP 2169 Piano 2
 - MUAP 2170 Jazz Piano 2
 - MUAP 2181 Voice 2
 - MUAP 2187 Composition 2
-

MUAP 22XX - Sophomore 60 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 60-minute lesson each week. One hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "2" in the course titles below indicate that they are sophomore-level classes).

Upon completion, students will be able to:

- See course restrictions for specific instrument course number

Grade Basis: L

Credit hours: 2.0

Lab hours: 2.0

Restrictions:

- MUAP 2201 Violin 2
 - MUAP 2205 Viola 2
 - MUAP 2209 Cello 2
 - MUAP 2213 Double Bass 2
 - MUAP 2215 Electric Bass 2
 - MUAP 2217 Flute 2
 - MUAP 2221 Oboe 2
 - MUAP 2225 Bassoon 2
 - MUAP 2229 Clarinet 2
 - MUAP 2233 Saxophone 2
 - MUAP 2237 Trumpet 2
 - MUAP 2241 French Horn 2
 - MUAP 2245 Trombone 2
 - MUAP 2253 Tuba 2
 - MUAP 2258 Percussion 2
 - MUAP 2261 Guitar 2
 - MUAP 2269 Piano 2
 - MUAP 2270 Jazz Piano 2
 - MUAP 2281 Voice 2
 - MUAP 2287 Composition 2
-

MUEN 1124 - Concert Band I

Large ensemble involving band instruments and literature designed to allow student to perform quality instrumental music. Open to all instrumentalists.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 1131 - Strings Chamber Ensemble I

Small ensemble involving stringed instruments and literature designed to allow students to perform quality music in a small setting. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1132 - Jazz Combo Chamber Ensemble I

Small ensemble involving jazz combo instruments and literature designed to allow students to perform quality jazz music in a small setting. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1133 - Mixed Chamber Ensemble I

Small ensemble involving mixed band instruments and literature designed to allow students to perform quality music in a small setting. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1134 - Guitar Ensemble I

Small ensemble involving guitars and literature designed to allow students to perform quality music in a small setting. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1135 - Piano Ensemble I

Small ensemble involving piano and literature designed to allow students to perform quality music in a small setting. Open to all students. May be repeated one time for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

MUEN 1141 - Choir

Open to all students. A large ensemble designed to allow students to perform quality choral music.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 2124 - Concert Band II

Open to students who have already taken two semesters of MUEN 1124. A large ensemble involving band instruments and literature designed to allow students to perform quality instrumental music.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

Prerequisites:

- [MUEN 1124](#) - Concert Band I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2131 - String Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1131. A small ensemble involving stringed instruments and literature designed to allow students to perform quality music in a small setting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

Prerequisites:

- [MUEN 1131](#) - Strings Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2132 - Jazz Combo Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1132. A small ensemble involving jazz combo instruments and literature designed to allow students to perform quality jazz music in a small setting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Prerequisites:

- [MUEN 1132](#) - Jazz Combo Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2133 - Mixed Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1133. Small ensemble involving mixed band instruments and literature designed to allow students to perform quality music in a small setting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Prerequisites:

- [MUEN 1133](#) - Mixed Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2134 - Guitar Ensemble II

Open to all students who have already taken two semesters of MUEN 1134. A small ensemble involving guitars and literature designed to allow students to perform quality music in a small setting

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Prerequisites:

- [MUEN 1134](#) - Guitar Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2135 - Piano Ensemble II

Small ensemble involving piano and literature designed to allow students to perform quality music in a small setting. Open to all students. May be repeated one time for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

MUEN 2141 - Advanced Choir

Open to students who have already taken two semesters of MUEN 1141. A large ensemble designed to allow students to perform quality choral music.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1141](#) - Choir

Restrictions:

- May be repeated one time for credit.
-

MUSB 1305 - Survey of the Music Business

An overview of the music industry including songwriting, live performance, the record industry, music merchandising, contracts and licenses, and career opportunities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MUSB 2301 - Music Marketing

Methods of music distribution, retailing, and wholesaling. Includes identifying a target market, image building, distribution (brick and mortar vs. digital delivery), pricing, advertising, and marketing mix.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSB 1305](#) - Survey of the Music Business
-

MUSC 1235 - Commercial Music Software

Specialized training in commercial music software applications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSB 1305](#) - Survey of the Music Business
-

MUSC 1321 - Songwriting I

Introduction to the techniques of writing marketable songs including the writing of lyrics and melodies, setting lyrics to music, developing lyrical and musical "hooks," analyzing the marketplace, and developing a production plan for a song demo.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

MUSC 1327 - Audio Engineering I

Overview of the recording studio. Includes basic studio electronics and acoustic principles, waveform properties, microphone concepts and mixing techniques, studio set up and signal flow, recording console theory, signal processing concepts, recorder principles and operation, and an overview of mixing and editing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

MUSC 2327 - Audio Engineering II

Implementation of the recording process, microphones, audio console, multi-track recorder, and signal processing devices.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [MUSC 1327](#) - Audio Engineering I
-

MUSI 1116 - Sight Singing & Ear Training I

Singing tonal music in treble and bass clefs, and aural study of elements of music, such as scales, intervals and chords, and dictation of basic rhythm, melody and diatonic harmony.

Upon completion, students will be able to:

- Apply a method of sight singing to diatonic melodies in treble and bass clef, and oral demonstration of simple rhythms.
- Classify elements of music, such as scales, intervals and chords.
- Transcribe more complex aural rhythms and diatonic melodies.
- Transcribe and analyze diatonic harmonic progression.
- Read and reproduce rhythms in various simple and compound meters.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- MUSI 1116 is only offered in the fall semester.

- Students must take MUSI 1311 Music Theory I, and MUSI 1181 Piano Class I concurrently.
-

MUSI 1117 - Sight Singing & Ear Training II

Singing tonal music in treble, bass, alto, and tenor clefs. Aural study, including dictation, of rhythm, melody, and diatonic harmony.

Upon completion, students will be able to:

- Apply a method of sight singing to diatonic melodies in various clefs, and oral demonstration of simple and compound rhythms.
- Classify elements of music, such as scales, intervals and chords.
- Transcribe more complex aural rhythms and diatonic melodies.
- Transcribe and analyze diatonic harmonic progression.
- Read and reproduce rhythms in various simple and compound meters.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 1116](#) - Sight Singing & Ear Training I

Restrictions:

- MUSI 1117 is only offered in the spring semester.
 - Students must take MUSI 1312 Music Theory II, and MUSI 1182 Piano Class II concurrently.
-

MUSI 1157 - Opera Workshop I

A study of the synthesis of singing and acting through the performance of opera.

Upon completion, students will be able to:

- Demonstrate accurate musical preparation for a role.
- Research and prepare an opera Character.
- Apply elements of stagecraft and movement to a performance.
- Perform with peers in an opera scene.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

MUSI 1181 - Piano Class I

Beginning class instruction in the fundamentals of keyboard technique.

Upon completion, students will be able to:

- Produce five finger patterns in major and minor keys.
- Play major and minor scales in selected keys.
- Construct and play chords of different qualities.
- Harmonize a melody.
- Perform selected compositions.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

Restrictions:

- MUSI 1181 is only offered in the fall semester.
-

MUSI 1182 - Piano Class II

Advance beginning class instruction in the fundamentals of keyboard technique.

Upon completion, students will be able to:

- Play additional major and minor scales.
- Introduce select chord progressions and concepts of voice leading.
- Continued harmonization of melodies.
- Perform selected compositions.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

Prerequisites:

- [MUSI 1181](#) - Piano Class I

Restrictions:

- MUSI 1182 is only offered in the spring semester.
 - Students must take MUSI 1312 Music Theory II, and MUSI 1117 Sight Singing & Ear Training II concurrently.
-

MUSI 1183 - Voice Class I

Class instruction in the fundamentals of singing including breathing, tone production, and diction. Designed for students with little or previous voice training. Does not apply to a music major degree.

Upon completion, students will be able to:

- Apply principles of healthy efficient singing, including posture, breath management, and resonance.
- Demonstrate proper performance techniques, including diction, articulation, and intonation.
- Perform with technical and musical accuracy.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1192 - Guitar Class I

Class instruction in fundamental guitar playing, including technique, music-reading, fretboard theory, melodic and harmonic realizations.

Upon completion, students will be able to:

- Show proper left and right hand technique.
- Demonstrate an understanding of basic music reading in first position.
- Perform basic harmonic chord progressions.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1303 - Fundamentals of Music

Introduction to the basic elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter, and rhythm. Course does not apply to music major degree.

Upon completion, students will be able to:

- Construct all major and minor scales and key signatures.
- Construct simple and compound intervals, triads and seventh chords of any quality.
- Identify and perform basic rhythmic and pitch patterns common in tonal music, and properly notate basic rhythms in simple or compound meters.

- Identify fundamental musical elements aurally and/or on the keyboard.
- Use appropriated musical vocabulary to describe theoretical concepts.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

MUSI 1306 - Music Appreciation

Understanding music through the study of cultural periods, major composers, and musical elements, illustrated with audio recordings and live performances. Course does not apply to music major degree.

Upon completion, students will be able to:

- Identify musical works and elements in a variety of styles.
- Analyze the elements and structures of music using appropriate terminology.
- Critically evaluate the influence of social, political, technological, and/or cultural ideas on music.
- Articulate the significance of music as an art from within historical, cultural and social contexts.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

MUSI 1307 - Music Literature

A Survey of the styles and forms of music as it developed from the middle ages to the present. This course will familiarize the student with cultural context terminology, genres, and notation.

Upon completion, students will be able to:

- Identify the major periods of music history, general style characteristics and genres of each period, and major composers of each period and representative works.
- Articulate the relationship between historical developments and events with musical styles and aesthetics. 3. Critically evaluate musical works using specific terminology and listening skills.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

MUSI 1311 - Music Theory I

The study of analysis and writing of tonal melody and diatonic harmony, including fundamental music concepts, scales, intervals, chords, 7th chords, and early four-part writing. Analysis of small compositional forms. Optional correlated study at the key board.

Upon completion, students will be able to:

- Construct and identify major scale and all forms of the minor scale.
- Construct and identify triads and seventh chords in all inversions.
- Analyze triads in harmonic context utilizing standard roman-numeral symbols.
- Compose music in standard four-part chorale style.
- Identify small musical forms.
- Demonstrate musical concepts covered in class, including scales triads, and basic harmonic progression on the keyboard.
- Demonstrate an understanding of rhythmic meter and note duration through score analysis and composition.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- MUSI 1311 is only offered in the fall semester.
 - Students must take MUSI 1116 Sight Singing & Ear Training I, and MUSI 1181 Piano Class I concurrently.
-

MUSI 1312 - Music Theory II

The study of analysis and writing of tonal melody and diatonic harmony, including all diatonic chords and seventh chords in root position and inversions, non-chord tones, and functional harmony. Introduction to more complex topics, such as modulation may occur. Optional correlated study at the keyboard.

Upon completion, students will be able to:

- Construct and identify all triads and seventh chords in root position and inversions.
- Properly utilize and identify all non-chord tones.
- Analyze harmonic progressions utilizing standard roman-numeral symbols.
- Compose original harmonic progressions that properly utilize functional harmony.
- Demonstrate on the keyboard musical concepts covered in class, including triads in inversions and progressions and no-chord tones.
- Demonstrate an understanding of rhythmic meter and note duration through score analysis and composition.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSI 1311](#) - Music Theory I

Restrictions:

- MUSI 1312 is only offered in the spring semester.
 - Students must take MUSI 1117 Sight Singing & Ear Training II, and MUSI 1182 Piano Class II concurrently.
-

MUSI 2116 - Sight Singing & Ear Training III

Singing more difficult tonal music in various clefs, aural study including dictation of more complex rhythm, melody, chromatic harmony, and extended tertian structures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 1117](#) - Sight Singing & Ear Training II

Restrictions:

- Students must take MUSI 2311, Music Theory III, and MUSI 2114, Piano Class for Music Majors III, concurrently.
 - MUSI 2116 is only offered in the Fall semester.
-

MUSI 2117 - Sight Singing & Ear Training IV

Singing advanced tonal music and introduction of modal and post-tonal melodies. Aural study including dictation of advanced rhythm, melody, and harmony.

Upon completion, students will be able to:

- Apply a method of sight singing to more difficult diatonic and non-diatonic melodies, including modes and non-tonal scales.
- Transcribe more complex rhythms, including contemporary materials.
- Transcribe increasingly more chromatic melodies.
- Transcribe and analyze diatonic and chromatic harmonies.
- Read and reproduce rhythms in various meters, including asymmetrical meters, syncopation, and irregular beat divisions.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 2116](#) - Sight Singing & Ear Training III

Restrictions:

- MUSI 2117 is only offered in the spring semester.
 - Students must take MUSI 2312 Music Theory IV, and MUSI 2182 Piano Class IV concurrently.
-

MUSI 2181 - Piano Class III

Intermediate class instruction of keyboard technique.

Upon completion, students will be able to:

- Play additional major and minor scales and arpeggios.
- Harmonize melodies using varied accompaniment techniques.
- Perform selected compositions.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

Restrictions:

- MUSI 2181 is only offered in the fall semester.
 - Students must take MUSI 2311 Music Theory III, and MUSI 2116 Sight Singing & Ear Training III concurrently.
-

MUSI 2182 - Piano Class IV

Advanced class instruction of keyboard technique.

Upon completion, students will be able to:

- Demonstrate mastery of scales and chord progressions.
- Demonstrate mastery of the harmonization of melodies using varied accompaniment techniques.
- Demonstrate competence in various transposition.
- Perform selected compositions.

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

Prerequisites:

- [MUSI 2182](#) - Piano Class IV

Restrictions:

- MUSI 2182 is only offered in the spring semester.
 - Students must take MUSI 2312 Music Theory IV, and MUSI 2117 Sight Singing & Ear Training IV concurrently.
-

MUSI 2311 - Music Theory III

continuation of advanced chromaticism and survey of analytical and compositional procedures in post-tonal music. Optional correlated study at the keyboard.

Upon completion, students will be able to:

- Construct and identify extended-tertian and chromatic harmonies.
- Analyze musical compositions, which include various forms of tonal modulation utilizing standard roman-numeral symbols.
- Demonstrate proper voice-leading practices through composition in appropriated styles.
- Demonstrate concepts covered in class on the keyboard, including progressions and utilize modulation.
- Demonstrate an understanding of rhythmic meter and note duration through score analysis and composition.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Prerequisites:

- [MUSI 1312](#) - Music Theory II

Restrictions:

- MUSI 2311 is only offered in the fall semester.
 - Students must take MUSI 2116 Sight Singing & Ear Training III, and MUSI 2181 Piano Class III concurrently.
-

MUSI 2312 - Music Theory IV

continuation of advanced chromaticism and survey of analytical and compositional procedures in post-tonal music. Optional correlated study at the keyboard.

Upon completion, students will be able to:

- Construct and identify advanced chromatic harmonies.
- Analyze musical compositions that utilize advanced chromatic harmonies and foreign-key modulation techniques.
- Analyze musical compositions that utilize a variety of post-tonal practices.
- Compose music utilizing appropriate post-tonal practices.
- Demonstrate musical concepts covered in class on the keyboard.
- Demonstrate an understanding of rhythmic meter and note duration through score analysis and composition.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [MUSI 2311](#) - Music Theory III

Restrictions:

- MUSI 2312 is only offered in the spring semester.
 - Students must take MUSI 2117 Sight Singing & Ear Training IV, and MUSI 2182 Piano Class IV concurrently.
-

Occupational Safety and Health

Overview

The OSHA curriculum at Grayson College is designed for transfer to four-year institutions, and the college has a specific agreement with [Southeastern Oklahoma University](#). However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

Areas of Employment Utilizing Training in OSHA include: Community Activist, Consumer Safety Officer, Fire Departments, Emergency Preparedness Specialist, Environmental Health, Emergency Response Specialist, Food Inspector/Department of Agriculture, Food Service Sanitarian, Hazardous Waste Inspector, Health Facility Surveyor, Industrial Hygienist, Injury Prevention Specialist, Patient Safety Specialist, Poisoning Prevention Coordinator, Program Officer, Urban Planner, Worksite Wellness Manager.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. Students must be college ready in reading, writing and math based on GC's TSI Assessment.

AS Degree Requirements

Associate of Science -

Subject

Semester Hours

ENGL 1301 (Composition I)	3
HIST 1301 (United States History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
*Creative Arts Core	3
COSC 1301 (Introduction to Computer Science)	3
ENGL 1302 (Composition II)	3
HIST 1302 (United States History II)	3
OSHT 1301 (Introduction to Safety and Health)	3
*Life & Physical Science Core	3
Science Lab	1
*Social & Behavioral Science Core	3
GOVT 2305 (Federal Government)	3
OSHT 1321 (Fire Protection Systems)	3
*Social and Behavioral Science Core	3
MATH 1314 (College Algebra)	3
*Elective	3
GOVT 2306 (Texas Government)	3
HUMA 1301 (Introduction to the Humanities I)	3
ECON 2302 (Principles of Microeconomics)	3
Oral Communication	3
CHEM 1311 (General Chemistry I)	3
CHEM 1111 (General Chemistry I Lab)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

OSHT 1301 - Introduction to Safety and Health

An Introduction to the basic concepts of safety and health. Students will identify appropriate procedures to minimize or prevent injuries and illness in the workplace; incorporate job safety analysis (JSA) and appropriate training; and name elements of an effective safety culture.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

OSHT 1321 - Fire Protection Systems

Study of fire protection systems and their applications with emphasis on the fire prevention codes and standards.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCI 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
60	

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6

080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography

PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1110 - General Activities

Fundamental instruction and participation in individual and team sports, including tennis, basketball, volleyball, and weight lifting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCL 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3

050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1110 - General Activities

Fundamental instruction and participation in individual and team sports, including tennis, basketball, volleyball, and weight lifting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 3.0
Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
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010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1111 - Slimnastics

Exercise course which includes physical self-improvement through total fitness, physical fitness, and body improvement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology

GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1111 - Slimnastics

Exercise course which includes physical self-improvement through total fitness, physical fitness, and body improvement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3

PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
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*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1112 - Weight Training and Conditioning

Introduction to basic conditioning exercises with primary instruction on proper stretching, weight lifting techniques, and aerobic conditioning methods.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1

* SOCJ 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1112 - Weight Training and Conditioning

Introduction to basic conditioning exercises with primary instruction on proper stretching, weight lifting techniques, and aerobic conditioning methods.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3

BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCJ 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
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*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1115 - Volleyball/Basketball

Rules, skills, techniques, and strategies of the two sports. Individual skills and team concepts. Emphasis on league and recreation utilization of the two sports.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3

PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOVI 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I

ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1115 - Volleyball/Basketball

Rules, skills, techniques, and strategies of the two sports. Individual skills and team concepts. Emphasis on league and recreation utilization of the two sports.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3

BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1116 - Jogging and Conditioning

Designed to improve one's fitness level including strength, muscular endurance, running techniques, etc.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3

* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCJ 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOVI 1301 Introductory Sociology
SOVI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1116 - Jogging and Conditioning

Designed to improve one's fitness level including strength, muscular endurance, running techniques, etc.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3

* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II
 CHEM 1111 General Chemistry I Lab
 CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1130 - Beginning Bowling

Scoring, rules of etiquette, basic skills, and recreational opportunities in community life.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3

* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

- MATH 1314 College Algebra
- MATH 1316 Plane Trigonometry
- MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I
 BIOL 2121 Microbiology for Non-Science Majors Laboratory II
 CHEM 1111 General Chemistry I Lab
 CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1130 - Beginning Bowling

Scoring, rules of etiquette, basic skills, and recreational opportunities in community life.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3

MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCL 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
<hr/>	
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*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1131 - Intermediate Bowling

Advanced skills, spare bowling, various types of ball delivery.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
- Beginning Bowling or consent of division director.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCI 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1131 - Intermediate Bowling

Advanced skills, spare bowling, various types of ball delivery.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
- Beginning Bowling or consent of division director.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1132 - Advanced Bowling

Designed to further enhance individual bowling skills beyond technique and toward overall strategy of the game.
Prerequisite: Intermediate Bowling or consent of division coordinator.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6

Communication (6 hours)**ENGL 1301 Composition I and one of the following:**

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology

SOCI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1132 - Advanced Bowling

Designed to further enhance individual bowling skills beyond technique and toward overall strategy of the game.
Prerequisite: Intermediate Bowling or consent of division coordinator.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCI 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
60	

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6

070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography

PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1142 - Varsity Sports I

Presentation of current scientific and technical information related to a particular activity with emphasis on developing health and skill related fitness, as well as fundamental skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCL 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3

050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1142 - Varsity Sports I

Presentation of current scientific and technical information related to a particular activity with emphasis on developing health and skill related fitness, as well as fundamental skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 3.0
Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCL 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
-----------------	----------------

010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1144 - Varsity Conditioning I

This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the upper collegiate level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1144 - Varsity Conditioning I

This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the upper collegiate level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3

PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
<hr/>	
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1164 - Introduction to Physical Fitness & Sport

Orientation to the field of physical fitness and sport. Includes the study and practice of activities and principles that promote physical fitness

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1

* SOC 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1164 - Introduction to Physical Fitness & Sport

Orientation to the field of physical fitness and sport. Includes the study and practice of activities and principles that promote physical fitness

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3

BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCL 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
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*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1166 - First Aid

Instruction in and practice of first aid techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3

PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I

ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1166 - First Aid

Instruction in and practice of first aid techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3

BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCI 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
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*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1170, 1171, 1172, 1174, 1175 - Intercollegiate sports

Intercollegiate sports. Maximum credit of four semester hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3

* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCJ 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOVI 1301 Introductory Sociology
SOVI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1170, 1171, 1172, 1174, 1175 - Intercollegiate sports

Intercollegiate sports. Maximum credit of four semester hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3

* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II
 CHEM 1111 General Chemistry I Lab
 CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1301 - Foundations of Kinesiology

The purpose of this course is to provide students with an introduction to human movement that includes the historical development of physical education, exercise science, and sport. This course offers the student both an introduction to the knowledge base, as well as information on expanding career opportunities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3

MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCI 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

- MATH 1314 College Algebra
- MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1301 - Foundations of Kinesiology

The purpose of this course is to provide students with an introduction to human movement that includes the historical development of physical education, exercise science, and sport. This course offers the student both an introduction to the knowledge base, as well as information on expanding career opportunities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCI 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
60	

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1304 - Personal & Community Health I

Investigation of the principles and practices in relation to personal and community health.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCI 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1304 - Personal & Community Health I

Investigation of the principles and practices in relation to personal and community health.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1306 - First Aid

Instruction and practice for emergency care. Designed to enable students to recognize and avoid hazards within their environment, to render intelligent assistance in case of accident or sudden illness, and to develop skills necessary for the immediate and temporary care of the victim. Successful completion of the course may enable the student to receive a certificate from a nationally recognized agency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6

Communication (6 hours)**ENGL 1301 Composition I and one of the following:**

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology

SOCI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1306 - First Aid

Instruction and practice for emergency care. Designed to enable students to recognize and avoid hazards within their environment, to render intelligent assistance in case of accident or sudden illness, and to develop skills necessary for the immediate and temporary care of the victim. Successful completion of the course may enable the student to receive a certificate from a nationally recognized agency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
60	

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3

060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1308 - Sports Officiating I

The purpose of the course is to study officiating requirements for sports and games with an emphasis on mechanics, rule interpretation, and enforcement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- Theory Course

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6

040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCl 1301 Introductory Sociology
SOCl 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1308 - Sports Officiating I

The purpose of the course is to study officiating requirements for sports and games with an emphasis on mechanics, rule interpretation, and enforcement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCL 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1321 - Coaching/Sports/Athletics

Study of the history, theories, philosophies, rules, and terminology of competitive sports. Includes coaching techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology

GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1321 - Coaching/Sports/Athletics

Study of the history, theories, philosophies, rules, and terminology of competitive sports. Includes coaching techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3

PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
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	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1338 - Concepts of Physical Fitness

Concepts and use of selected physiological variables of fitness, individual testing and consultation, and the organization of sports and fitness programs.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1

* SOC 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1338 - Concepts of Physical Fitness

Concepts and use of selected physiological variables of fitness, individual testing and consultation, and the organization of sports and fitness programs.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

PHED 1346 - Drug Use & Abuse

Study of the use, misuse and abuse of drugs and other harmful substances in today's society. Physiological, Sociological, Pharmacological and Psychological factors will be emphasized.

Upon completion, students will be able to:

- Analyze the physiological, pharmacological, and psychological effects of licit and illicit drugs, related to use, misuse and abuse (including but not limited to) alcohol, tobacco, performance enhancing, over-the-counter prescriptions, and designer/synthetic drugs.
- Evaluate the sociological impact of drugs within the context of health literacy, recreational use, social implications, stereotypes, family dynamics and work environments.
- Articulate and apply behaviors related to personal responsibility including (but not limited to) healthy attitudes and behaviors, refusal skills, decision-making, and risk-taking behavior.
- Compare and contrast how dependence and addiction occurs including (but not limited to) treatments and prevention strategies.
- Survey the historical influence on the drug-oriented society, sport and cultural beliefs and its bearing on personal drug behavior to include (but not limited to) laws that arise related to substance use, misuse, and abuse.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1346 - Drug Use & Abuse

Study of the use, misuse and abuse of drugs and other harmful substances in today's society. Physiological, Sociological, Pharmacological and Psychological factors will be emphasized.

Upon completion, students will be able to:

- Analyze the physiological, pharmacological, and psychological effects of licit and illicit drugs, related to use, misuse and abuse (including but not limited to) alcohol, tobacco, performance enhancing, over-the-counter prescriptions, and designer/synthetic drugs.
- Evaluate the sociological impact of drugs within the context of health literacy, recreational use, social implications, stereotypes, family dynamics and work environments.
- Articulate and apply behaviors related to personal responsibility including (but not limited to) healthy attitudes and behaviors, refusal skills, decision-making, and risk-taking behavior.
- Compare and contrast how dependence and addiction occurs including (but not limited to) treatments and prevention strategies.
- Survey the historical influence on the drug-oriented society, sport and cultural beliefs and its bearing on personal drug behavior to include (but not limited to) laws that arise related to substance use, misuse, and abuse.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHED 2111 - Yoga.

Exercise course which includes instruction and participation in yoga

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in

their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I

PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2111 - Yoga.

Exercise course which includes instruction and participation in yoga

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCI 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
60	

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology

GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2112 - Advanced Weight Training and Conditioning

Designed to further enhance individual conditioning, stretching, weight lifting techniques, and aerobic conditioning.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCL 1301 Introductory Sociology
SOCL 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2112 - Advanced Weight Training and Conditioning

Designed to further enhance individual conditioning, stretching, weight lifting techniques, and aerobic conditioning.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCl 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3

PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
<hr/>	
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2116 - Advanced Jogging and Conditioning

Designed to further enhance one's fitness level including strength, muscular endurance, running techniques, etc.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC 1301 or PSYC 2301	3

GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2116 - Advanced Jogging and Conditioning

Designed to further enhance one's fitness level including strength, muscular endurance, running techniques, etc. Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1

HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCI 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
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*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2142 - Varsity Sports II

Presentation of current scientific and technical information related to a particular activity with emphasis on developing health and skill related fitness, as well as fundamental skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3

PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOC1 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I

ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2142 - Varsity Sports II

Presentation of current scientific and technical information related to a particular activity with emphasis on developing health and skill related fitness, as well as fundamental skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3
MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3

BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOC1 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
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*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2144 - Varsity Conditioning II

This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the upper collegiate level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3

PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCI 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

- MATH 1314 College Algebra
- MATH 1316 Plane Trigonometry
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
- MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II
 CHEM 1111 General Chemistry I Lab
 CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2144 - Varsity Conditioning II

This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the upper collegiate level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

Athletic Training

Overview

The Athletic Training AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

AS Degree Requirements

Athletic Training

Subject	Semester Hours
ENGL 1301 (Comp I)	3

MATH 1314 (College Algebra)	3
HIST 1301 (U.S. History I)	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
* ENGL 1302 (Comp II) or SPCH 1311 (Intro to Spch Comm)	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 (Music Appreciation) ARTS 1301 (Art Appreciation)	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
HIST 1302 (U.S. History II)	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Intro to Physical Fitness & Sports)	1
* SOCL 1301 (Intro to Sociology) or PSYC 2301 (General Psych.)	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
<hr/>	
	60

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2356 - Care and Prevention of Athletic Injuries

Prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1315	3
* HIST 1301 or 1302	3
* EDUC/PSYC 1300	3
PHED 1304 (Personal & Community Health I)	3
* ENGL 1302 or SPCH 1311	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
* MUSI 1306 or ARTS 1301	3
GOVT 2305 (Federal Government)	3
PHED 1301 (Foundations of Kinesiology)	3
HUMA 1301 (Introduction to the Humanities I)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Laboratory)	1
*History Core	3
PHED 1338 (Concepts of Physical Fitness)	3
PHED 1164 (Introduction to Physical Fitness & Sport)	1
* SOCI 1301 or PSYC 2301	3
GOVT 2306 (Texas Government)	3
PHED 1308 (Sports Officiating I)	3
PHED 2356 (Care and Prevention of Athletic Injuries)	3
PHED 1306 (First Aid)	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 2356 - Care and Prevention of Athletic Injuries

Prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Philosophy

Overview

For students interested in pursuing an Philosophy degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice

to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

PHIL 1301 - Introduction to Philosophy

A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 1304 - Introduction to World Religions

A comparative study of world religions, including but not limited to Hinduism, Buddhism, Judaism, Christianity, and Islam.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 2306 - Introduction to Ethics

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 2321 - Philosophy of Religion

A study of the major issues in the philosophy of religion such as the existence and nature of God, the relationships between faith and reason, the nature of religious language, religious experience, and the problem of evil.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Physics

Overview

For students planning to pursue a Physics major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

PHYS 1101 - College Physics I (lab)

This laboratory-based course accompanies PHYS 1301, College Physics I. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; emphasis will be on problem solving.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [PHYS 1301](#) - College Physics I

Restrictions:

- College readiness in reading and math required.
-

PHYS 1102 - College Physics II (lab)

This laboratory-based course accompanies PHYS 1302, College Physics II. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [PHYS 1302](#) - College Physics II

Restrictions:

- College readiness in reading and math required.
-

PHYS 1103 - Stars and Galaxies

Laboratory in the study of stars, galaxies, and the universe outside our solar system.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [PHYS 1303](#) - Stars and Galaxies

Restrictions:

- College readiness in reading and math required.
-

PHYS 1104 - Solar System

Laboratory in the study of the sun and its solar system, including its origin.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [PHYS 1304](#) - Solar System

Restrictions:

- College readiness in reading is required.
-

PHYS 1115 - Physical Science Laboratory I

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [PHYS 1315](#) - Physical Science I

Restrictions:

- College readiness in reading is required.
-

PHYS 1301 - College Physics I

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, physical systems, Newton's Laws of Motion, and gravitation; with emphasis on problem solving, constant acceleration.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- College readiness in reading and math required.
-

PHYS 1302 - College Physics II

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, and optics; with emphasis on problem solving, capacitance and resistance, superposition of waves.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [PHYS 1301](#) - College Physics I

Restrictions:

- College readiness in reading and math required.
-

PHYS 1303 - Stars and Galaxies

Study of stars, galaxies, and the universe outside our solar system.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- College readiness in reading and math required.
-

PHYS 1304 - Solar System

Study of stars, galaxies, and the universe outside our solar system.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- College readiness in reading and math required.
-

PHYS 1315 - Physical Science I

Course designed for non-science majors that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- College readiness in reading and math required.
-

PHYS 2125 - University Physics Laboratory I

Basic laboratory experiments supporting theoretical principles presented in PHYS 2325 involving the principles and applications of classical mechanics, including harmonic motion and physical systems; experimental design, data collection and analysis, and preparation of laboratory reports.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

Prerequisites:

- [MATH 2413](#) - Calculus I
- [PHYS 2325](#) - University Physics I

Restrictions:

- College readiness in reading, and math required.
-

PHYS 2126 - University Physics Laboratory II

Laboratory experiments supporting theoretical principles presented in PHYS 2326 involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics; experimental design, data collection and analysis, and preparation of laboratory reports.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

Prerequisites:

- [PHYS 2326](#) - University Physics II

Restrictions:

- College readiness in reading, and math required.
-

PHYS 2325 - University Physics I

Fundamental principles of physics, using calculus, for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [MATH 2414](#) - Calculus II

Restrictions:

- College readiness in reading and math required.
-

PHYS 2326 - University Physics II

Principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [PHYS 2325](#) - University Physics I

Restrictions:

- College readiness in reading and math required.
-

Medical Laboratory Technology

Overview

The Medical Laboratory Technology program prepares the student, by formal instruction and clinical experience, to perform laboratory procedures that aid physicians, pathologists and other healthcare providers, in the diagnosis and treatment of disease in the hospital, clinic or research laboratory. Upon completion of the program, students receive an Associate of Applied Science Degree and are eligible to take the national certification exams.

If you are interested in obtaining a phlebotomy certificate only, please click on the certificate tab above.

Specific Program Requirements

1. Science courses must have been completed within the past five (5) years. Exceptions may be made by the Medical Laboratory Technology (MLT) Program Director.
2. Students must complete all MLAB courses within a three year period in order to graduate.

This program prepares the medical laboratory technician by formal instruction and clinical experience to perform laboratory procedures which aid physicians and pathologists in the diagnosis and treatment of disease in the hospital, clinic, or research laboratory.

Upon completion of this program, students receive an Associate of Applied Science Degrees and may be eligible to take national certification examinations such as that administered by the American Society for Clinical Pathology (ASCP) Board of Certification.

Admission Information

The entry date for the MLT program is generally the fall semester of each year, but arrangements can sometimes be made for a spring entry also. An alternative curriculum sequence may be arranged for students having completed academic requirements other than MLAB courses. For fall entry, applications should be submitted to the MLT Program Director by March 1 for early acceptance or until class is full for late acceptance. For spring entry, applications should be submitted by November 1 for early acceptance and by January 1 for late acceptance. Applications will be taken until the class is filled. Class size is limited by availability of clinical sites.

Transcripts (college) and passing level TSI assessment test scores should be included with the application.

Admission Criteria

1. The Health Science Division application for Medical Laboratory Technology should be submitted to the Program Director.
2. TSI test scores for assessment purposes should be submitted with the application.
3. Overall GPA of 2.0 or higher is required for all college courses completed.
4. Applicants must meet certain essential functions as defined by The National Accrediting Agency for Clinical Laboratory Science (NAACLS). The nonacademic criteria (essential functions) which all MLT applicants are expected to meet are listed in the medical lab tech packet.
5. Applicants must make an appointment to meet with the Program Director prior to acceptance. The program director can be contacted at 903-463-8684. All applications will be accepted through the health science department or directly to the program director.

Required Immunizations

All Students must submit a copy of the records of the following immunizations with a validation stamp or signature, a signed statement from a physician, or lab report indicating serologic confirmation. Please note that some of these immunizations take up to six months to complete.

Immunizations must be started in time to complete the series before the beginning of the semester. If unable to complete the series before the beginning of the first clinical, the applicant is not eligible for admission.

1. TETANUS/DIPHTHERIA/PERTUSSIS (Tdap) (Immunization)

- One dose of Tetanus/diphtheria/pertussis (Tdap) immunization within the last 10 years.
2. MEASLES, MUMPS, RUBELLA (MMR) (Immunizations or Blood Test)
If born after January 1, 1957, you must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart - or - proof of serologic confirmation of measles, mumps and rubella immunity - or - serologic evidence of infection.
 3. VARICELLA (Chickenpox) (Immunization or Blood Test)
Serologic confirmation of varicella immunity - or - varicella vaccine - two doses are required 4-8 weeks apart.
 4. HEPATITIS B (Immunization or Blood Test)
Series of three hepatitis B vaccines - or - serologic confirmation of immunity to hepatitis B
 5. INFLUENZA VACCINE
Annual influenza vaccination with the most up-to-date strains predicted on the basis of viral surveillance data is required.
 6. MENINGOCOCCAL VACCINE
All on-campus college students who are under the age of 22 must have the meningococcal vaccination within the previous five years and at least 10 days prior to the first day of class.
* Due to compliance with clinical facility requirements and Texas Department of State Health Services recommendations, Grayson College Health Science programs may not waiver immunization requirements for any reason. If immunizations are not complete, clinical courses for the program must be delayed. Copies of records from physician's offices, public health department, public schools, other colleges, and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Selection and Acceptance

There are no pre-requisite courses that must be completed prior to acceptance into the MLT program. Applicants are accepted into the program once the Admission Criteria is met until the class is full. The number of students who can be admitted to the MLT Program is limited by the number of available clinical facilities.

When the maximum number is reached, additional applicants will be placed on a waiting list. Applicant will receive a letter stating acceptance to the program.

Additional Program Information

MLAB 2660 and MLAB 2661, the major clinical components of the program may be offered in both the Fall and Spring Semesters. Students will be assigned to these clinical rotations based on availability of space and GPA of all required MLT courses. Students may be required to commute to a clinical site outside Grayson County if there are not enough local facilities available.

Employees of the Clinical Affiliates serve as Clinical Coordinators and Clinical Instructors.

Prior to clinical course rotations, students must pass a drug screen test and criminal background check (at the student's expense and completed as scheduled through a GC approved company). Criteria that prevent attendance at clinical sites and/or require withdrawal from the course are stipulated in the related GC Health Science policy.

Students who have been involved in the criminal justice system may not be eligible for licensure following graduation. If you feel this applies to you, please seek guidance from the program director of Health Science advisor prior to enrollment.

Students who are certified phlebotomists, or have recent documented experience as a phlebotomist may request credit for PLAB1223 and PLAB 1160 or PLAB 1161. Upon completion of adequate phlebotomy skills, such credit may be awarded. Each request will be considered individually and must be approved by the MLT Program Director.

Documentation required by the State of Texas to provide proof of Immunization; proof of immunity, results of a TB test, and the completed medical statement, must be submitted prior to start of class.

Proof of current American Heart Association(AHA) BLS CPR training must be provided before attending clinicals.

Contact information regarding program approval and accreditation:

National Accrediting Agency for Clinical Laboratory Science

5600 N. River Rd. Suite 720
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(773) 714-8880

<http://www.naacls.org>

application information

Packet: [Medical Lab Tech Packet](#)

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
MLAB 1291 (Special Topics MLT)	2
MLAB 1201 (Introduction to Clinical Laboratory Science)	2
MLAB 1335 (Immunology/Serology)	3
PLAB 1160 (Phlebotomy Clinical)	1
ENGL 1301 (Composition I)	3
PLAB 1223 (Phlebotomy)	2
MLAB 2331 (Immunochemistry)	3
MLAB 1315 (Hematology)	3
MLAB 1127 (Coagulation)	1
MLAB 1311 (Urinalysis and Body Fluids)	3
MLAB 1231 (Parasitology/Mycology)	2
*Humanities/Fine Arts	3
* SPCH 1311 , 1315 or 1321	3
BIOL 2404 (Anatomy and Physiology)	4
MLAB 2434 (Clinical Microbiology)	4
MLAB 2401 (Clinical Chemistry)	4
MLAB 2238 (Advanced Topics in MLT)	2
PSYC 2301 (General Psychology)	3
MLAB 2660 (Clinical II)	6
MLAB 2661 (Clinical III)	6

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Capstone Requirement: All students must successfully complete MLAB 2660 and MLAB 2661 prior to graduation. To fulfill the capstone requirement.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Outcomes

NAACLS-MLT Pass Rates:

Graduation School Year	MLT(ASCP) Board of Certification (BOC) Pass Rates
2014-2015	86%
2015-2016	75%
2016-2017	86%
2017-2018	Collecting Data
Three Year Average	81%

Job Placement Rates (Three-Year Average: 97%)

Second Half of Program Attrition Rates: 95%

Phlebotomy Certificate

[Phlebotomy Certificate for Non-MLTs](#)

Consists of two courses, a lecture and two clinicals. Together they are designed to prepare students to:

- Perform the duties of a phlebotomist in a variety of health care settings
- Take a national certification exam.

Certificate classes meet at the college's Van Alstyne campus from 8 a.m. until 12:50 p.m. for 16 weeks. Clinical experience is an 8-hour per week rotation at one of the area hospitals. Selection of clinical sites may require travel. These are usually 4-hour rotations twice each week or one 8-hour rotation scheduled between 5 a.m. and 8 p.m. Monday through Friday only. Following program completion, the graduate will be eligible to take a

national certification exam such as the one administered by the American Society for Clinical Pathology Board of Certification. Upon passing the exam, the graduate will be certified as a Phlebotomy Technician, PBT (ASCP).

Subject	Semester Hours
PLAB 1160 (Clinical I)	1
PLAB 1161 (Clinical II)	1
PLAB 1223 (Phlebotomy)	2
	4

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

PLAB 1160 - Phlebotomy Clinical

Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. On-site clinical instruction, supervision, and evaluation of phlebotomy skills learned in PLAB 1223.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment or previous completion of PLAB 1223 is required.

Health Science Related Courses

PLAB 1223 - Phlebotomy

Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, proper patient identification, labeling of specimens and quality assurance, specimen handling, processing, accessioning, professionalism, ethics, and medical terminology. Students who are certified phlebotomists or have recent documented experience as a phlebotomist may request credit for this course. Each request will be considered individually and must be approved by the MLT Program Director.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment in MLAB 1260 required
- A grade of "C" or better is required for graduation.

Medical Laboratory Technology

Overview

The Medical Laboratory Technology program prepares the student, by formal instruction and clinical experience, to perform laboratory procedures that aid physicians, pathologists and other healthcare providers, in the diagnosis and treatment of disease in the hospital, clinic or research laboratory. Upon completion of the program, students receive an Associate of Applied Science Degree and are eligible to take the national certification exams.

If you are interested in obtaining a phlebotomy certificate only, please click on the certificate tab above.

Specific Program Requirements

1. Science courses must have been completed within the past five (5) years. Exceptions may be made by the Medical Laboratory Technology (MLT) Program Director.
2. Students must complete all MLAB courses within a three year period in order to graduate.

This program prepares the medical laboratory technician by formal instruction and clinical experience to perform laboratory procedures which aid physicians and pathologists in the diagnosis and treatment of disease in the hospital, clinic, or research laboratory.

Upon completion of this program, students receive an Associate of Applied Science Degrees and may be eligible to take national certification examinations such as that administered by the American Society for Clinical Pathology (ASCP) Board of Certification.

Admission Information

The entry date for the MLT program is generally the fall semester of each year, but arrangements can sometimes be made for a spring entry also. An alternative curriculum sequence may be arranged for students having completed academic requirements other than MLAB courses. For fall entry, applications should be submitted to the MLT Program Director by March 1 for early acceptance or until class is full for late acceptance. For spring entry, applications should be submitted by November 1 for early acceptance and by January 1 for late acceptance. Applications will be taken until the class is filled. Class size is limited by availability of clinical sites.

Transcripts (college) and passing level TSI assessment test scores should be included with the application.

Admission Criteria

1. The Health Science Division application for Medical Laboratory Technology should be submitted to the Program Director.
2. TSI test scores for assessment purposes should be submitted with the application.
3. Overall GPA of 2.0 or higher is required for all college courses completed.
4. Applicants must meet certain essential functions as defined by The National Accrediting Agency for Clinical Laboratory Science (NAACLS). The nonacademic criteria (essential functions) which all MLT applicants are expected to meet are listed in the medical lab tech packet.
5. Applicants must make an appointment to meet with the Program Director prior to acceptance. The program director can be contacted at 903-463-8684. All applications will be accepted through the health science department or directly to the program director.

Required Immunizations

All Students must submit a copy of the records of the following immunizations with a validation stamp or signature, a signed statement from a physician, or lab report indicating serologic confirmation.

Please note that some of these immunizations take up to six months to complete.

Immunizations must be started in time to complete the series before the beginning of the semester. If unable to complete the series before the beginning of the first clinical, the applicant is not eligible for admission.

1. TETANUS/DIPHTHERIA/PERTUSSIS (Tdap) (Immunization)

One dose of Tetanus/diphtheria/pertussis (Tdap) immunization within the last 10 years.

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If born after January 1, 1957, you must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart - or - proof of serologic confirmation of measles, mumps and rubella immunity - or - serologic evidence of infection.

3. VARICELLA (Chickenpox) (Immunization or Blood Test)

Serologic confirmation of varicella immunity - or - varicella vaccine - two doses are required 4-8 weeks apart.

4. HEPATITIS B (Immunization or Blood Test)

Series of three hepatitis B vaccines - or - serologic confirmation of immunity to hepatitis B

5. INFLUENZA VACCINE

Annual influenza vaccination with the most up-to-date strains predicted on the basis of viral surveillance data is required.

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All on-campus college students who are under the age of 22 must have the meningococcal vaccination within the previous five years and at least 10 days prior to the first day of class.

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Selection and Acceptance

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Additional Program Information

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Documentation required by the State of Texas to provide proof of Immunization; proof of immunity, results of a TB test, and the completed medical statement, must be submitted prior to start of class.

Proof of current American Heart Association(AHA) BLS CPR training must be provided before attending clinicals.

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National Accrediting Agency for

Clinical Laboratory Science

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Rosemont, IL 60018

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application information

Packet: [Medical Lab Tech Packet](#)

AAS Degree Requirements

Associate of Applied Science Degree

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PLAB 1160 (Phlebotomy Clinical)	1
ENGL 1301 (Composition I)	3
PLAB 1223 (Phlebotomy)	2
MLAB 2331 (Immunochemistry)	3
MLAB 1315 (Hematology)	3
MLAB 1127 (Coagulation)	1
MLAB 1311 (Urinalysis and Body Fluids)	3
MLAB 1231 (Parasitology/Mycology)	2
*Humanities/Fine Arts	3
* SPCH 1311 , 1315 or 1321	3
BIOL 2404 (Anatomy and Physiology)	4
MLAB 2434 (Clinical Microbiology)	4
MLAB 2401 (Clinical Chemistry)	4
MLAB 2238 (Advanced Topics in MLT)	2
PSYC 2301 (General Psychology)	3
MLAB 2660 (Clinical II)	6
MLAB 2661 (Clinical III)	6
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Capstone Requirement: All students must successfully complete MLAB 2660 and MLAB 2661 prior to graduation. To fulfill the capstone requirement.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Outcomes

NAACLS-MLT Pass Rates:

Graduation School Year	MLT(ASCP) Board of Certification (BOC) Pass Rates
2014-2015	86%
2015-2016	75%
2016-2017	86%
2017-2018	Collecting Data
Three Year Average	81%

Job Placement Rates (Three-Year Average: 97%)

Second Half of Program Attrition Rates: 95%

Phlebotomy Certificate

[Phlebotomy Certificate for Non-MLTs](#)

Consists of two courses, a lecture and two clinicals. Together they are designed to prepare students to:

- Perform the duties of a phlebotomist in a variety of health care settings
- Take a national certification exam.

Certificate classes meet at the college's Van Alstyne campus from 8 a.m. until 12:50 p.m. for 16 weeks. Clinical experience is an 8-hour per week rotation at one of the area hospitals. Selection of clinical sites may require travel. These are usually 4-hour rotations twice each week or one 8-hour rotation scheduled between 5 a.m. and 8 p.m. Monday through Friday only. Following program completion, the graduate will be eligible to take a national certification exam such as the one administered by the American Society for Clinical Pathology Board of Certification. Upon passing the exam, the graduate will be certified as a Phlebotomy Technician, PBT (ASCP).

Subject	Semester Hours
PLAB 1160 (Clinical I)	1
PLAB 1161 (Clinical II)	1
PLAB 1223 (Phlebotomy)	2
	4

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

PLAB 1223 - Phlebotomy

Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, proper patient identification, labeling of specimens and quality assurance, specimen handling, processing, accessioning professionalism, ethics, and medical terminology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- Concurrent enrollment in PLAB 1250 or 1160 required.
- Students who are certified phlebotomists, or have recent documented experience as a phlebotomist may request credit for this course.
- Each request will be considered individually and must be approved by the MLT Program Director. A grade of "C" or better is required for graduation.

Health Science Related Courses

PLAB 1260 - Clinical I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Includes skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. On-site clinical instruction, supervision, and evaluation of phlebotomy skills learned in PLAB 1223. Students who are certified phlebotomists or have recent documented experience as a phlebotomist may request credit for this course. Each request will be considered individually and must be approved by the MLT Program Director.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 6.0

Restrictions:

- Concurrent or previous enrollment in PLAB 1223 required.
- A grade of "C" or better is required for graduation.

Medical Laboratory Technology

Overview

The Medical Laboratory Technology program prepares the student, by formal instruction and clinical experience, to perform laboratory procedures that aid physicians, pathologists and other healthcare providers, in the diagnosis and treatment of disease in the hospital, clinic or research laboratory. Upon completion of the program, students receive an Associate of Applied Science Degree and are eligible to take the national certification exams.

If you are interested in obtaining a phlebotomy certificate only, please click on the certificate tab above.

Specific Program Requirements

1. Science courses must have been completed within the past five (5) years. Exceptions may be made by the Medical Laboratory Technology (MLT) Program Director.
2. Students must complete all MLAB courses within a three year period in order to graduate.

This program prepares the medical laboratory technician by formal instruction and clinical experience to perform laboratory procedures which aid physicians and pathologists in the diagnosis and treatment of disease in the hospital, clinic, or research laboratory.

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Admission Information

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Transcripts (college) and passing level TSI assessment test scores should be included with the application.

Admission Criteria

1. The Health Science Division application for Medical Laboratory Technology should be submitted to the Program Director.

2. TSI test scores for assessment purposes should be submitted with the application.
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Serologic confirmation of varicella immunity - or - varicella vaccine - two doses are required 4-8 weeks apart.

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5. INFLUENZA VACCINE

Annual influenza vaccination with the most up-to-date strains predicted on the basis of viral surveillance data is required.

6. MENINGOCOCCAL VACCINE

All on-campus college students who are under the age of 22 must have the meningococcal vaccination within the previous five years and at least 10 days prior to the first day of class.

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Associate of Applied Science Degree

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MLAB 2331 (Immunoematology)	3
MLAB 1315 (Hematology)	3
MLAB 1127 (Coagulation)	1
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*Humanities/Fine Arts	3
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BIOL 2404 (Anatomy and Physiology)	4
MLAB 2434 (Clinical Microbiology)	4
MLAB 2401 (Clinical Chemistry)	4
MLAB 2238 (Advanced Topics in MLT)	2
PSYC 2301 (General Psychology)	3
MLAB 2660 (Clinical II)	6
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Capstone Requirement: All students must successfully complete MLAB 2660 and MLAB 2661 prior to graduation. To fulfill the capstone requirement.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Outcomes

NAACLS-MLT Pass Rates:

Graduation School Year	MLT(ASCP) Board of Certification (BOC) Pass Rates
2014-2015	86%
2015-2016	75%
2016-2017	86%
2017-2018	Collecting Data

Three Year Average 81%

Job Placement Rates (Three-Year Average: 97%)

Second Half of Program Attrition Rates: 95%

Phlebotomy Certificate

Phlebotomy Certificate for Non-MLTs

Consists of two courses, a lecture and two clinicals. Together they are designed to prepare students to:

- Perform the duties of a phlebotomist in a variety of health care settings
- Take a national certification exam.

Certificate classes meet at the college's Van Alstyne campus from 8 a.m. until 12:50 p.m. for 16 weeks. Clinical experience is an 8-hour per week rotation at one of the area hospitals. Selection of clinical sites may require travel. These are usually 4-hour rotations twice each week or one 8-hour rotation scheduled between 5 a.m. and 8 p.m. Monday through Friday only. Following program completion, the graduate will be eligible to take a national certification exam such as the one administered by the American Society for Clinical Pathology Board of Certification. Upon passing the exam, the graduate will be certified as a Phlebotomy Technician, PBT (ASCP).

Subject	Semester Hours
PLAB 1160 (Clinical I)	1
PLAB 1161 (Clinical II)	1
PLAB 1223 (Phlebotomy)	2
	4

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

PLAB 1161 - Phlebotomy Clinical II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Includes skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. On-site clinical instruction, supervision, and evaluation of phlebotomy skills learned in PLAB 1223.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent or previous enrollment in PLAB 1223 required.
- Students who are certified phlebotomists or have recent documented experience as a phlebotomist may request credit for this course. Each request will be considered individually and must be approved by the MLT Program Director. A grade of "C" or better is required for graduation.

Office and Computer Tech

Overview

Today's office environment demands proficiency with the internet and a variety of software applications. The ability to quickly and easily learn new programs is a necessity to perform tasks efficiently and accurately.

The **Associate of Applied Science Degree** is a 60-hour online program designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions.

The **Administrative Assistant Certificate** is a 42-hour online program that will prepare the student for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office.

The **Medical Administrative Certificate** is a 42-hour online program that will prepare the student to work in a variety of settings throughout the healthcare industry including hospitals, physician offices, insurance companies, government agencies, and companies providing services to the medical community. Areas of study include medical coding, terminology, ethics, and electronic health records management.

The **Accounting Office Support Certificate** is a 36-hour online program that will prepare the student for a career in the accounting field.

The **Applications Software Specialist Certificate** is a 30-hour online program that concentrates on computer software. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Workforce Preparation). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office & Computer Technology

Subject	Semester Hours
ENGL 1301 (Composition I)	3
POFT 1301 (Business English)	3
ACNT 1303 (Introduction to Accounting I)	3
*Social and Behavioral Science Core	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2312 (Business Correspondence & Communication)	3

POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
* POFT 2303 or ARTC 1325	3
*Math/Life and Physical Science Core	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
*Elective	3
POFT 2331 (Administrative Project Solutions)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
*Elective	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFT 1301 (Business English)	2
POFT 2303 (Speed and Accuracy Building)	2
POFI 2301 (Word Processing)	3
ACNT 1303 (Introduction to Accounting I)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ACNT 1304 (Introduction to Accounting II)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 2312 (Business Correspondence & Communication)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFT 2331 (Administrative Project Solutions)	3

Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
POFT 2303 (Speed and Accuracy Building)	2
ACNT 1303 (Introduction to Accounting I)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2331 (Administrative Project Solutions)	3

ITSW 1307 (Introduction to Database)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
ACNT 1313 (Computerized Accounting Applications)	3
*Elective	3

Applications Software Specialist Certificate

Subject	Semester Hours
POFT 2303 (Speed and Accuracy Building)	3
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ARTC 1325 (Introduction to Computer Graphics)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFI 1301 (Computer Applications I)	3

Medical Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
HITT 1305 (Medical Terminology I)	3
POFT 2303 (Speed and Accuracy Building)	3
POFI 2301 (Word Processing)	3
POFI 1301 (Computer Applications I)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1304 (Introduction to Spreadsheets)	3
HITT 1341 (Coding and Classification Systems)	3
POFT 2331 (Administrative Project Solutions)	3
HITT 1311 (Health Information Systems)	3
HITT 2346 (Advanced Medical Coding)	3
HITT 1353 (Legal and Ethical Aspects of Health Information)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFM 1317 (Medical Administrative Support)	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

POFI 1301 - Computer Applications I

Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures. This course is designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFI 2301 - Word Processing

Word processing software focusing on business applications. This course is designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

POFM 1317 - Medical Administrative Support

(FALL ONLY) Instruction in medical office procedures including appointment scheduling, medical records creation and maintenance, telephone communications, coding, billing, collecting, and third party reimbursements.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	3
HAMG 1340 (Hospitality Legal Issues)	3
HAMG 1221 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
*Social/Behavioral Science Core	3
CHEF 1301 (Basic Food Preparation)	3

HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 1213 (Front Office Procedures)	3
*HAMG, PSTR, CHEF or FDST Elective	
* SPCH 1311 or 1321	3
CHEF 2231 (Advanced Food Preparation)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
*Lang, Phil, Culture/Creative ARTS CORE	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	3
CHEF 1314 (A La Carte Cooking)	

15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	2
CHEF 1301 (Basic Food Preparation)	3
HAMG 1221 (Introduction to Hospitality Industry)	2
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301 (Fundamentals of Baking)	3
HAMG 1319 (Computers in Hospitality)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1345 (International Cuisine)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 2331 (Advanced Pastry Shop)	3
HAMG 1324 (Hospitality Human Resources Management)	3
CHEF 1310 (Garde Manger)	3
RSTO 1304 (Dining Room Service)	3
CHEF 1302 (Principles of Healthy Cuisine)	3
CHEF 1314 (A La Carte Cooking)	3
*Social/Behavioral Science Core	3
CHEF 1164 (Practicum or Field Experience)	1
IFWA 1210 (Nutrition and Menu Planning)	2

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
HAMG 2301 (Principles of Food and Beverage Operations)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
HAMG 2332 (Hospitality Financial Management)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
HAMG 1213 (Front Office Procedures)	2
HAMG 2167 (Practicum or Field Experience)	1
HAMG 2305 (Hospitality Management and Leadership)	3

Culinary Arts Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1345 (International Cuisine)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1302	3
HAMG 1319 (Computers in Hospitality)	3
* IFWA 1210 or BIOL 1322	2
CHEF 1314 (A La Carte Cooking)	3
RSTO 1304 (Dining Room Service)	3
PSTR 2331 (Advanced Pastry Shop)	3
CHEF 1310 (Garde Manger)	3
CHEF 1164 (Practicum or Field Experience)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Basic Culinary Skills Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2

PSTR 1301 (Fundamentals of Baking)	3
* EDU 1300/PSYC 1300	3
CHEF 1345 (International Cuisine)	3
CHEF 1310 (Garde Manger)	3
CHEF 2231 (Advanced Food Preparation)	2
RSTO 1304 (Dining Room Service)	3
POFT 1120 (Job Search Skills)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Catering and Event Planning Certificate

Subject	Semester Hours
TRVM 2333 (Applied Convention)	3
CHEF 1205* (Sanitation and Safety)	2
TRVM 1327 (Special Events Design)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 2307 (Catering)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1310 (Garde Manger)	3
FDST 2433 (Wine Types and Sensory Eval)	4
POFT 1120 (Job Search Skills)	1

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

POFT 1120 - Job Search Skills

Skills to seek and obtain employment in business and industry.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0
Lecture hours: 1.0

Office and Computer Tech

Overview

Today's office environment demands proficiency with the internet and a variety of software applications. The ability to quickly and easily learn new programs is a necessity to perform tasks efficiently and accurately.

The **Associate of Applied Science Degree** is a 60-hour online program designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions.

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Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Workforce Preparation). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office & Computer Technology

Subject	Semester Hours
ENGL 1301 (Composition I)	3
POFT 1301 (Business English)	3
ACNT 1303 (Introduction to Accounting I)	3
*Social and Behavioral Science Core	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
* POFT 2303 or ARTC 1325	3
*Math/Life and Physical Science Core	3
* SPCH 1311 or 1321	3

*Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
*Elective	3
POFT 2331 (Administrative Project Solutions)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
*Elective	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFT 1301 (Business English)	2
POFT 2303 (Speed and Accuracy Building)	2
POFI 2301 (Word Processing)	3
ACNT 1303 (Introduction to Accounting I)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ACNT 1304 (Introduction to Accounting II)	3
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
POFT 2312 (Business Correspondence & Communication)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFT 2331 (Administrative Project Solutions)	3

Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
POFT 2303 (Speed and Accuracy Building)	2
ACNT 1303 (Introduction to Accounting I)	3
POFT 2312 (Business Correspondence & Communication)	3
POFI 1301 (Computer Applications I)	3
ACNT 1304 (Introduction to Accounting II)	3
POFT 2331 (Administrative Project Solutions)	3
ITSW 1307 (Introduction to Database)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
ACNT 1313 (Computerized Accounting Applications)	3

*Elective 3

Applications Software Specialist Certificate

Subject	Semester Hours
POFT 2303 (Speed and Accuracy Building)	3
POFT 1301 (Business English)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3
ARTC 1325 (Introduction to Computer Graphics)	3
ITSC 2321 (Integrated Software Applications II)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1307 (Introduction to Database)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFI 1301 (Computer Applications I)	3

Medical Administrative Assistant Certificate

Subject	Semester Hours
POFT 1301 (Business English)	3
HITT 1305 (Medical Terminology I)	3
POFT 2303 (Speed and Accuracy Building)	3
POFI 2301 (Word Processing)	3
POFI 1301 (Computer Applications I)	3
POFT 2312 (Business Correspondence & Communication)	3
ITSW 1304 (Introduction to Spreadsheets)	3
HITT 1341 (Coding and Classification Systems)	3
POFT 2331 (Administrative Project Solutions)	3
HITT 1311 (Health Information Systems)	3
HITT 2346 (Advanced Medical Coding)	3
HITT 1353 (Legal and Ethical Aspects of Health Information)	3
POFT 1313 (Capstone)* (Professional Workforce Preparation)	3
POFM 1317 (Medical Administrative Support)	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
POFI 1301 (Computer Applications I)	3
POFI 2301 (Word Processing)	3
ITSW 1304 (Introduction to Spreadsheets)	3

9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

POFT 1301 - Business English

Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFT 1313 - Professional Workforce Preparation

Preparation for career success including ethics, interpersonal relations, professional attire, and advancement

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

POFT 2303 - Speed and Accuracy Building

Review, correct, and improve keyboarding techniques for the purpose of Increasing speed and improving accuracy. This course is designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFT 2312 - Business Correspondence & Communication

Development of writing and presentation skills to produce effective business communications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFT 2331 - Administrative Project Solutions

(SPRING ONLY). Advanced concepts of project management and office procedures integrating software applications, critical thinking, and problem-solving skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	3
HAMG 1340 (Hospitality Legal Issues)	3
HAMG 1221 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
*Social/Behavioral Science Core	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 1213 (Front Office Procedures)	3
*HAMG, PSTR, CHEF or FDST Elective	
* SPCH 1311 or 1321	3
CHEF 2231 (Advanced Food Preparation)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
*Lang, Phil, Culture/Creative ARTS CORE	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	3
CHEF 1314 (A La Carte Cooking)	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	2
CHEF 1301 (Basic Food Preparation)	3
HAMG 1221 (Introduction to Hospitality Industry)	2
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3

PSTR 1301 (Fundamentals of Baking)	3
HAMG 1319 (Computers in Hospitality)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1345 (International Cuisine)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 2331 (Advanced Pastry Shop)	3
HAMG 1324 (Hospitality Human Resources Management)	3
CHEF 1310 (Garde Manger)	3
RSTO 1304 (Dining Room Service)	3
CHEF 1302 (Principles of Healthy Cuisine)	3
CHEF 1314 (A La Carte Cooking)	3
*Social/Behavioral Science Core	3
CHEF 1164 (Practicum or Field Experience)	1
IFWA 1210 (Nutrition and Menu Planning)	2

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
HAMG 2301 (Principles of Food and Beverage Operations)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
HAMG 2332 (Hospitality Financial Management)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
HAMG 1213 (Front Office Procedures)	2
HAMG 2167 (Practicum or Field Experience)	1
HAMG 2305 (Hospitality Management and Leadership)	3

Culinary Arts Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1345 (International Cuisine)	3
CHEF 2231 (Advanced Food Preparation)	2

CHEF 1302	3
HAMG 1319 (Computers in Hospitality)	3
* IFWA 1210 or BIOL 1322	2
CHEF 1314 (A La Carte Cooking)	3
RSTO 1304 (Dining Room Service)	3
PSTR 2331 (Advanced Pastry Shop)	3
CHEF 1310 (Garde Manger)	3
CHEF 1164 (Practicum or Field Experience)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Basic Culinary Skills Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
PSTR 1301 (Fundamentals of Baking)	3
* EDU 1300/PSYC 1300	3
CHEF 1345 (International Cuisine)	3
CHEF 1310 (Garde Manger)	3
CHEF 2231 (Advanced Food Preparation)	2
RSTO 1304 (Dining Room Service)	3
POFT 1120 (Job Search Skills)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Catering and Event Planning Certificate

Subject	Semester Hours
TRVM 2333 (Applied Convention)	3
CHEF 1205* (Sanitation and Safety)	2
TRVM 1327 (Special Events Design)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 2307 (Catering)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1310 (Garde Manger)	3
FDST 2433 (Wine Types and Sensory Eval)	4
POFT 1120 (Job Search Skills)	1

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

PSTR 1301 - Fundamentals of Baking

Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. Professional chef uniform and kitchen tools required. Lab required.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [PSTR 1301](#) - Fundamentals of Baking
-

PSTR 2331 - Advanced Pastry Shop

A study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Psychology

Overview

For students planning to pursue a Psychology major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

PSYC 1100 - Learning Framework

A study of the: research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. Cross-listed as EDUC 1100.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Only one of the cross-listed courses can be taken for credit.
-

PSYC 1300 - Learning Frameworks

A study of the (1) research and theory in the psychology of learning, cognition, and motivation, (2) factors that impact learning, and (3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Only one of the cross-listed courses can be taken for credit.
-

PSYC 2301 - General Psychology

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PSYC 2306 - Human Sexuality

This course will provide an overview of the broad field of human sexuality. Topics will be covered from various perspectives – biological, sociological, anthropological, etc., but will focus primarily on the psychological perspective. The goal is for each student to learn factual, scientifically-based information that will provoke thought and contribute to his/her own decision-making on sexual issues outside of the classroom. Cross-listed as SOCI 2306.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Only one of the cross-listed courses can be taken for credit.
-

PSYC 2314 - Lifespan, Growth & Development.

Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PSYC 2315 - Psychology of Adjustment

Study of the processes involved in adjustment of individuals to their personal and social environments.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PSYC 2301](#) - General Psychology
-

PSYC 2319 - Social Psychology

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. Cross-listed as SOCI 2326.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PSYC 2301](#) - General Psychology

Restrictions:

- Only one of the cross-listed courses can be taken for credit.
-

Advanced Manufacturing

Overview

Advanced manufacturing technology is used in automated fabrication machinery (robotics) that require skilled technicians to design, program, service and repair. Mechatronics refers to the combination of **mechanics** and **electronics**.

Our hands-on Advanced Manufacturing programs prepare you to go to work as an entry-level service technician, diagnosing, servicing and repairing automated systems. Advanced manufacturing skills are also an excellent supplement to related areas such as electronics and engineering.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303 (Technical Calculations)	3
EDUC 1300 (Learning Frameworks)	3
* CRIJ 1307 or HIST 1301	3
MATH 1332 (Contemporary Mathematics)	3
MCHN 1320 (Precision Tools and Measurements)	3
ELPT 1311 (Fundamentals of Electricity)	3
MCHN 1302 (Print Reading for Machine Trade)	3
ENGL 1301 (Composition I)	3
* ARTS 1301 or PHIL 1301	3
MCHN 1371 (Manufacturing Skills Standards)	3
QCTC 1343 Quality Assurance)	3
MCHN 1438 (Basic Machine Shop I)	4
MCHN 1454	4
ELPT 2319 (Programmable Logic Controllers I)	3
MCHN 1326 (Intro to Computer Aided Manufacturing)	3
INMT 1391 (Special Topics in Manufacturing Tech.)	3
ELPT 1441 (Motor Control)	4
INMT 2688 (Internship-Manufacturing Technology/ Technician)	6

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
TECH 1303 (Technical Calculations)	3
MCHN 1320 (Prec Tools & Measure)	3
ELPT 1311 (Basic Electrical Theory)	3
MCHN 1302 (Print Rdng for Mchn)	3
MCHN 1371 (MSSC Local Needs)	3
QCTC 1343 (Quality Assurance)	3
MCHN 1438 (Basic Mch Shop I)	4
ELPT 2319 (PLC'S I)	3
MCHN 1326 (CAM)	3
INMT 1391 (Spec Top in Mfg Technology)	3
ELPT 1441 (Motor Controls)	4
INMT 2688 (Internship Mfg Tech)	6
	41

Mechatronics Technician Certificate

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
WLDG 1421 (Intro to Welding Fundamentals)	4
HART 1407 (Refrigeration Principles)	4
DFTG 1405 (Technical Drafting)	4

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

QCTC 1343 - Quality Assurance

Principles and applications designed to introduce quality assurance. Covers the benefits and applications of quality assurance, proficiency in the use of the tools of quality assurance, application of sampling techniques, evaluation of quality assurance standards, performance of system audits and implementation of a corrective and preventative action plan.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Radiologic Technology

Overview

The Radiography program allows students to participate in classroom instruction, laboratory demonstration and practice and perform radiographic procedures, and clinical experiences.

The program is recognized by the American Registry of Radiologic Technology. Following program completion, the graduate is eligible to take the American Registry of Radiologic Technologists Examination (ARRT) to become a Registered Radiologic Technologist. Upon becoming ARRT (R), the graduate automatically qualifies to be a Texas Certified Medical Radiologic Technologist. The GC program will assist all graduating students with the application processes for the ARRT Board Exam and the Texas MRT Certification.

Important Information for Applicants

In order to accomplish the objectives of this program, the student must be able to meet the Occupational Performance Requirements of Radiologic Technologists. In order to accomplish the objectives of the Radiography program, students must have:

- Visual acuity, with corrective lenses to identify cyanosis, absence of respiratory movement in patients, and to read small print on medication containers, physicians' orders, monitors, gauges, and equipment calibrations.
- Hearing ability, with auditory aids to understand the normal speaking voice without viewing the speaker's face and to hear monitor alarms, emergency signals, call bells, and stethoscope sounds originating from a patient's blood vessels, heart, lung, and abdomen.
- Physical ability to: Stand and walk for prolonged periods of time; perform cardiopulmonary resuscitation; lift patients to move onto and off of the radiographic table; lift and manipulate patients in the radiographic room as well as in hospital beds for proper placement of radiographic film holders; move from room to room, maneuvering in limited spaces and move, push, maneuver heavy, mobile radiographic machines into and out of patient rooms, surgery, intensive care units, and all other patient areas.
- Strength to lift approximately a minimum of 30 lbs. and walk a minimum distance of approximately 30 feet.
- Shoulder range of motion to reach up, push, pull, and maneuver radiographic equipment with overhead suspension and manually position, tilt, and angle radiographic tube housings in accurate relationship to the patients and image receptors.
- Speaking ability to communicate effectively in verbal and written form.
- Ability to speak clearly and succinctly when explaining procedures, describing patient conditions, and giving directions to the patient.
- Fine motor skills to write legibly and correctly in the legal documentation of radiographic procedures and patient conditions/occurrences.
- Manual dexterity to use sterile techniques, to insert catheters, and to prepare and administer contrast media and medications (IV and IM) as directed by a physician.
- Ability to function safely and accurately under stressful conditions and to be able to quickly adapt to rapidly changing clinical situations involving patient care

Eligibility for Licensure

The American Registry of Radiologic Technologists requires that all candidates be in accordance with very strict guidelines. In an effort to establish, secure, and maintain an improved professional reputation for Radiographers, within the healthcare environment, the ARRT demands close adherence to strict ethical standards. Radiography

School Applicants with a criminal record are encouraged to request a pre-application review of eligibility to be conducted by the ARRT to obtain a ruling on his/her eligibility for certification and registration. The pre-application form can be found at the ARRT website, www.arrt.org. For ARRT purposes any of the following situations constitute the same as a conviction:

- A charge or conviction for an offense which is classified as a misdemeanor or felony,
- A plea of guilty to an offense which is classified as a misdemeanor or felony
- A plea of nolo contendere (no contest) to an offense which is classified as a misdemeanor or felony
- Any situation in which the result is a deferred or withheld adjudication
- Any suspended or withheld sentence.

Admission Criteria and Selection

Applications for admission to the Radiologic Technology program, along with GED or high school transcripts and transcripts from each college or university attended, are due in the Health Sciences Office by May 1. The applicant is responsible for submitting all the required transcripts and other documentation to the Radiology School. Documents submitted after 4 p.m. on May 1 will be filed for application to the next school year. Applicants are required to take an admission test related to vocabulary skill, reading comprehension, math and anatomy and physiology, and achieve a passing score of 75 or greater.

Pre-Acceptance Requirements:

Before application files can be evaluated, the following documentation must be in the applicant's folder no later than May 1 of the year for which you are applying:

- Copy of High School Diploma or passing GED Scores
- Documentation of a completed application to Grayson College
- Completed GC Health Sciences application
- Student letter of intent
- Official transcripts
- Admission test scores
- Minimum GPA of 2.5 with a grade of "C" or higher in all required courses
- Completion of all prerequisite coursework including Anatomy & Physiology I and II, General Psychology, English I, and a Fine Arts / Humanities Core course
- Documentation of having completed all required immunizations
- Record of physician's pre-entrance medical statement
- Proof of mandatory attendance of Radiology Information Meeting

Applicant files that are complete with the items listed above will then be evaluated for documentation of the following factors in this sequential order of priority:

- Grade point average stated on all transcripts
- Grades received for each science, medical, or other courses that may be relative to healthcare services
- Technical, trade, or military training received
- Resume/work history/life experiences as they relate to basic knowledge of the radiology field, healthcare services, and/or work ethics
- Three (3) letters of reference (Professional or educational only)
- Applicant's written statement of "Why I have chosen Radiologic Technology as a career." Indicating awareness of the Radiography field.

All applicant transcripts are rated, using the following point system:

- 3 points for a final grade of "A" in theory and/or lab course
- 2 points for a final grade of "B" in theory and/or lab course
- 1 point for a final grade of "C" in theory and/or lab course

Points are given for the score achieved on the admission test:

- 3 points for a test score of 90-100
- 2 points for a test score of 80-89
- 1 point for a test score of 75-79

Consideration is also given to documentation of:

- Applicant's resume/work history
- Any volunteer work in radiology or other healthcare field
- Trade school and/or technical education completed.
- Certifications, and/or licensure earned that may enhance the applicant's skills in Radiography.

Non-academic experiences/attributes are quantified, using the following point system:

- 3 points for high significance / relativity to radiology field
- 2 points for medium significance / relativity to radiology field
- 1 point for slight significance / relativity to radiology field

Prior to clinical course rotations, students must pass a drug screen test and criminal background check scheduled through a GC approved company.

Candidates will be notified in writing via US mail.

Required Immunizations

All students must submit a copy of the following immunizations with a valid stamp or signature, signed statement from a physician, or lab report indicating serologic immunity. Please note that some of these immunizations take up to six months to complete. Immunizations must be started in time to complete the series before the FIRST DAY OF CLASS. If unable to complete the series before beginning of class, the applicant is not eligible for admission.

1. Tetanus / Diphtheria / Pertussis (Tdap) - One dose of the Tetanus / diphtheria / pertussis (Tdap) immunization within the last 10 years.
2. Measles, Mumps, Rubella (MMR) (Immunization or blood test proving immunity) - If born after January 1, 1957, must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart – or – proof of serologic immunity.
3. Varicella (Chickenpox) (Immunization or blood test proving immunity) - Series of two Varicella vaccines at least 30 days apart – or – proof of serologic immunity.
4. Hepatitis B (Immunization or blood test proving immunity - Series of three Hepatitis B vaccines – or proof of serologic immunity
5. Influenza Vaccine - Annual influenza immunization as recommended by the CDC in the fall of each year.

Due to compliance with clinical facility requirements and the Texas Department of Health recommendations, GC Health Science programs may not waiver immunization requirements for any reason. If immunizations are not complete, application to the program must be delayed.

Copies of records from physician's offices, public health department, public schools, other colleges and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Application Information

Deadline: May 1

Packet:

- Packets are only available by pickup at the Mandatory Information Session
- When: 3rd Wednesday of every month at 1pm in
- Where: Health Science 200 (except August & December)

Outcomes

Pass, Fail, Graduation Rates

Year	Graduation Rate	Employment Rate	Pass Rate
2013-2014	80%	93.75%	81%
2014-2015	89.47%	100%	75%
2015-2016	95.24%	95%	80%
2016-2017	94.74%	N/A	N/A

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
PREREQUISITES	
BIOL 2301 (Anatomy and Physiology I Lecture)	3
BIOL 2101 (Anatomy and Physiology I Laboratory)	1
PSYC 2301 (General Psychology)	3

*Huma / Arts Core	3
	10

PREREQUISITES

BIOL 2302 (Anatomy and Physiology II Lecture)	3
BIOL 2102 (Anatomy and Physiology II Laboratory)	1
ENGL 1301 (Composition I)	3
	7

RADR 1301 (Introduction to Radiography)	3
RADR 1303 (Patient Care)	3
RADR 1311 (Basic Radiographic Procedures)	3
RADR 1160 (Clinical I)	1
RADR 1213 (Principles of Radiographic Imaging I)	2
RADR 2401 (Intermediate Radiographic Procedures)	4
RADR 2313 (Radiation Biology and Protection)	3
RADR 1361 (Clinical II)	3
RADR 1262 (Clinical III)	2
RADR 2217 (Radiographic Pathology)	2
RADR 2305 (Principles of Radiographic Imaging II)	3
RADR 2463 (Clinical IV)	4
RADR 2309 (Radiographic Imaging Equipment)	3
RADR 2233 (Advanced Medical Imaging)	2
RADR 2235 (Radiologic Technology Seminar)	2
RADR 2431 (Advanced Radiographic Procedures)	4
RADR 2367 (Practicum)	3

Capstone Requirement: All students must complete the capstone requirement: successful completion of RADR 2235 prior to graduation.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

RADR 1160 - Clinical I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: RADR 1301, 1303, 1311.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1213 - Principles of Radiographic Imaging I.

An introduction to radiographic image qualities and the effects of exposure variables upon these qualities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2401, 2313, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1262 - Clinical III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lab hours: 12.0

Restrictions:

- Huma / Fine Arts Core, RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1301 - Introduction to Radiography

An introduction to radiation protection, professional ethics, darkroom procedures, medical terminology, prime exposure factors, and technical factors of film quality; Image receptors.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1303, 1311, 1160.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1303 - Patient Care

An introduction in patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1301, 1311, 1160.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1311 - Basic Radiographic Procedures.

An introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1301, 1303, 1160.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1361 - Clinical II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lab hours: 16.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2313, 2401
 - Must be taken in sequence as listed in degree plan.
-

RADR 2217 - Radiographic Pathology

A presentation of the disease process and common diseases and their appearance on medical images.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2305, 2463, 2309.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2233 - Advanced Medical Imaging

An exploration of specialized imaging modalities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2235, 2431, 2367.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2235 - Radiologic Technology Seminar

A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2233, 2431, 2367.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2305 - Principles of Radiographic Imaging II

A continuation of the study of radiographic imaging technique formulation, image quality assurance, and the synthesis of all variables in image production. Lab is included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Concurrent Enrollment: RADR 2217, 2463, 2309
 - Must be taken in sequence as listed in degree plan.
-

RADR 2309 - Radiographic Imaging Equipment

A study of the radiographic equipment, components, accessories and the physics that apply to x-ray production. The course includes the basic x-ray circuits, and the relationship of equipment components to the outcome of the imaging process.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 2217, 2305, 2463.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2313 - Radiation Biology and Protection

A study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2401, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2367 - Practicum

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lab hours: 24.0

Restrictions:

- Concurrent Enrollment: RADR 2233, 2235, 2431.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2401 - Intermediate Radiographic Procedures

A continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of anatomy.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 4.0
Lecture hours: 2.0
Lab hours: 4.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2313, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2431 - Advanced Radiographic Procedures

Continuation of positioning; alignment of the anatomical structure and equipment, evaluation of images for proper demonstration of anatomy and related pathology. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2233, 2235, 2367.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2463 - Clinical IV

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lab hours: 24.0

Restrictions:

- Concurrent Enrollment: RADR 2217, 2305, 2309.
 - Must be taken in sequence as listed in degree plan.
-

Nursing, Associate Degree (RN)

Overview - RN

The Nursing program provides an integrated nursing curriculum that assists students in acquiring the knowledge, skills, and experience necessary to function as beginning practitioners of nursing. The curriculum includes classroom, skills lab, simulation lab, and clinical courses. Students must satisfactorily complete all the nursing courses in each semester concurrently in order to progress to the next semester of the program, and all semesters must be taken in sequence.

Upon completion of the program of study, the student will have earned an **Associate Degree in Nursing**. Graduates of the program may then apply to the Board of Nursing to take the licensure exam to become a registered nurse. The program is approved by the Texas Board of Nursing (BON)* and accredited by the Accreditation Commission for Education in Nursing (ACEN).**To qualify to take the licensing exam, students must meet eligibility requirements stipulated by the Board of Nursing. Applicants who have reason to believe they may be ineligible to take the licensing exam due to criminal background issues may petition the BON for a declaratory order. This should be done prior to entering the nursing program, since these eligibility issues also prevent the student from enrolling in the clinical courses. Information about eligibility is available in the RN Information Packet and on the website for the Texas Board of Nursing.

Detailed information about the program is provided in an information packet, available by sending an email request to nursing@grayson.edu. The applicant should request the RN Information Packet. This packet will be sent to the applicant via email. Completion of this information packet is required for all applicants to the program.

The following general information about the nursing program is current at the time of printing, but all information is subject to change without notice or obligation.

Core Performance Standards/Physical & Mental Capabilities

In order to accomplish the objectives of the program, students must be able to meet certain core performance standards. These standards are listed in the RN Information Packet.

Admission Information

Admission to the nursing program is selective, with registration in nursing courses by permission only. Admission to the college does not guarantee admission to the nursing program. To be considered for acceptance into the program, applicants must submit all required application information by the deadlines posted in the RN Information Packet. Minimum admission requirements include the following:

- Admission to Grayson College.
- Completion of the RN Information Packet (available by emailing nursing@grayson.edu).
- HESI Admission test score of 74.5 or higher on cumulative total of required sections. (May be taken twice in a 12 month period from the first testing date; and there must be 5 years or less from time test was taken to the date of admission into the nursing program).
- High School degree or GED.
- College GPA (cumulative) minimum of 2.5.
- Completion of the pre-requisite math course (MATH 1314 – College Algebra) or (MATH 1342 – Statistics).
- Completion of Anatomy and Physiology courses I & II (8 college credit hours) with a grade of C or better within first three attempts (including withdrawals). Science courses must have been taken and completed within the past five years.
- Completion of required immunizations.

All documentation related to these admission requirements should be uploaded to nursing@grayson.edu. Applications will not be accepted until the student has passed the HESI Admission Test. Detailed information about the test is provided in the RN Information Packet.

Required Immunizations

All students must submit a copy of the following immunizations with a valid stamp or signature, signed statement from a physician, or lab report indicating serologic immunity. Please note that some of these immunizations take up to six months to complete. Immunizations must be started in time to complete the series before the FIRST DAY OF CLASS. If unable to complete the series before beginning of class, the applicant is not eligible for admission.

1. Tetanus / Diphtheria / Pertussis (Tdap) - One dose of the Tetanus / diphtheria / pertussis (Tdap) immunization within the last 10 years.
2. Measles, Mumps, Rubella (MMR) (Immunization or blood test proving immunity) - If born after January 1, 1957, must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart – or – proof of serologic immunity.
3. Varicella (Chickenpox) (Immunization or blood test proving immunity) - Series of two Varicella vaccines at least 30 days apart – or – proof of serologic immunity. History of the disease is not acceptable.
4. Hepatitis B (Immunization or blood test proving immunity) - Series of three Hepatitis B vaccines – or proof of serologic immunity. This series takes 6 months to complete.
5. Influenza Vaccine - Annual influenza immunization as recommended by the CDC in the fall of each year.

Due to compliance with clinical facility requirements and the Texas Department of Health recommendations, GC Health Science programs may not waiver immunization requirements for any reason. If immunizations are not complete, application to the program must be delayed.

Copies of records from physician's offices, public health department, public schools, other colleges and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Selection and Acceptance Procedure (Point system)

1. Applications are reviewed for required documentation (after submission deadlines) by the ADN Admissions Committee. Only those with complete files will be considered for admission. It is the applicants responsibility to make sure files are complete.
2. Applicants with incomplete files will be kept for one additional admission period.
3. Students with the highest points will be selected first. In the case where applicants having equal points must be chosen for limited space availability, the selection will be made by the Admissions committee and/or Program Director, based on GPA and HESI scores.
4. Applicants will be notified via email regarding selection or non-selection within six weeks of final deadline date. Final acceptance is contingent upon completion of final acceptance requirements, listed below:
5. Applicants with complete files will be evaluated for selection by a point system. A grade of "C" or better must be obtained in all required courses.
 - # Required science courses (Microbiology, and Anatomy & Physiology I & II) earn points based on grade received. (Maximum = 18 points)
 - # A = 6 points
 - # B = 4 points
 - # C = 2 points
 - # Required academic courses earn one (1) point for each course completed with a "C" or better (English Composition I, General Psychology, Language/Philosophy/Culture/Creative Arts Core, Algebra/Statistics, and Life Span Psychology). (Maximum = 5 points)
 - # Evolve Admission Test (Maximum = 3 points)
 - # 89.5 – 100 = 3 points
 - # 79.5 – 89.4 = 2 points

- # 74.5 – 79.4 = 1 point
- # < 74.4 = ineligible for admission into the ADN program
- # Grayson College Service Area residency (Maximum = 2 points)
- # The total maximum number of points that can be earned is 28 points

Final Acceptance Requirements (Following notification of admission)

1. Complete background checks required by the Board of Nursing within the time frame specified in the acceptance letter. Failure to do so will result in loss of accepted status.
2. Return form verifying intent to accept or decline admission.
3. Complete mandatory orientation requirements which includes attendance at scheduled orientation day.
4. Pass a urine drug screen (as stipulated by the nursing program).
5. Pass an additional background check (as stipulated by the nursing program).
6. Obtain CPR certification. (American Heart; Basic Life Support Provider level with a face to face demonstration check off).
7. Submit proof of a current negative TB (tuberculosis) test or negative chest x-ray.
8. Obtain annual influenza vaccination as recommended by the CDC in the fall of each year.
9. Obtain a physical exam from a healthcare provider (form provided with acceptance packet).

Transfer of College Coursework

Students who desire admission via transfer to GC must adhere to the GC course transfer policies outlined in the *GC Student Handbook*. This includes submitting official copies of transcripts from each college or university previously attended to the Office of Admissions and Records and a copy of the transcripts to the ADN program. The Office of Admissions and Records will not send a copy to the ADN office. Prerequisite and co-requisite general education courses will be accepted for transfer and application toward the Associate of Applied Science Degree in Nursing if the course is evaluated as equivalent to the required course at GC. Nursing courses are accepted for transfer only with prior approval of the ADN Admissions Committee. Students wishing to transfer nursing courses should request an Information Packet at nursing@grayson.edu. Copies of course syllabi from all previous nursing courses must be submitted to the ADN Program Director to determine eligibility for transfer. Applicants must also provide a letter from the previous nursing program director stating that the applicant is currently passing and in good standing. Applicants who have been unsuccessful in another nursing program are not eligible for admission to the GC nursing program.

Contact information regarding program approval and accreditation:

**Accreditation Commission for
Education in Nursing**
33 Peachtree Road NE, Suite 850
Atlanta, GA 30326
(404) 975-5000
<http://www.acenursing.org>

Texas Board of Nursing
333 Guadalupe Street #3-460
Austin, TX 78701
(512) 305-7400
<http://www.bon.state.tx.us>

Application Information

Deadline: May 1, 2018 (for Spring 2019) January 31, 2018 (for Fall 2019)

Packet: [RN information packet](#), [TE information packet](#)

Outcomes

NCLEX-RN Pass Rates

Year	Grayson College Pass Rate	Texas Pass Rate	National Pass Rate
2017	90.00%	89.77%	86.94%
2016	86.15%	87.14%	84.3%
2015	86.44%	85.22%	84.18%
2014	78.79%	81.02%	81.74%
2013	90.08%	83.93%	84.29%

Grayson College 3 year mean pass rate = 87.53%

Texas 3 year mean pass rate = 87.38%

National 3 year mean pass rate = 85.14%

Program Completion Rates

Admission Year	Students Admitted	Completion in 150% time
2012	124	89.52%
2013	142	86.62%
2014	156	82.69%
2015	146	Still in progress

Job Placement Rate Data from Texas Higher Education Coordinating Board

Year	Placement Percentage
2010/2011	98.3%
2012/2013	97.5%
2013/2014	93.89%
2014/2015	Unavailable
2015/2016	Unavailable
2016/2017	Unavailable

ADN Degree

Associate Degree Nursing

Subject	Semester Hours
PREREQUISITES	
*BIOL 2401 or 2301 and 2101	4
	4
PREREQUISITES	
*BIOL 2402 or 2302 and 2102	4
* MATH 1314 or 1342	3
	7
RNSG 1423 (Introduction to Professional Nursing for Integrated Programs)	4
RNSG 1119 (Integrated Nursing Skills)	1
RNSG 1360 (Clinical)	3
*BIOL 2420 or 2320 and 2120	4
PSYC 2301 (General Psychology)	3
RNSG 2404 (Integrated Care of the Patient with Common Health Care Needs)	4
RNSG 1144 (Nursing Skills)	1
RNSG 1461 (Clinical)	4
ENGL 1301 (Composition I)	3
*Lang/Phil/Culture/Creative Arts Core	3
PSYC 2314 (Lifespan, Growth & Development)	3
RNSG 2414 (Integrated Care of the Patient with Complex Health Care Needs)	4
RNSG 2462 (Clinical)	4
RNSG 2435 (Integrated Client Care Management)	4
RNSG 2463 (Clinical)	4

Capstone Requirement: Successful completion of RNSG 2435 and 2463.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Overview - TE Option

The Nursing program facilitates upward educational mobility for the licensed vocational/practical nurse by offering advanced placement into the nursing program through two transitional entry courses (RNSG 1413 and RNSG 1227).

These courses are offered as hybrid courses, combining online and classroom learning and must be taken and passed concurrently to progress to the Nursing 3 semester. Students may only take the TE courses one time. If unsuccessful in one or both of the TE courses, eligible students may apply for admission to Nursing 1 or 2 in the generic program.

Upon successful completion of the two TE courses, students receive 11 semester credits for prior vocational nursing courses. TE students then continue in the nursing program following the traditional ADN course schedule for the third and fourth semesters. Grading and progression policies are the same for all students in the nursing program regardless of entry as a traditional or TE student.

Detailed information about the program is provided in a TE information packet, available by sending an email request to nursing@grayson.edu. The applicant should request the Transitional Entry Nursing Information Packet. This packet will be sent to the applicant via email. Completion of this information packet is required for all applicants to the program.

The following general information about the TE program is current at the time of printing, but all information is subject to change without notice or obligation.

Admission Information

Admission to the Nursing program is selective, with registration in TE nursing courses by permission only. Admission to the college does not guarantee admission to the program. To be considered for acceptance into the program, applicants must submit all required application information by the deadlines posted in the Information Packet. **Minimum admission requirements include the following:**

- Admission to Grayson College.
- Completion of the TE Information Packet (available by emailing nursing@grayson.edu).
- HESI Admission test score of 74.5 or higher on cumulative total of required sections. (May be taken twice in a 12 month period from the first testing date; and there must be 5 years or less from time test was taken to the date of admission into the nursing program).
- High School degree or GED.
- College GPA (cumulative) minimum of 2.5.
- Satisfactory completion (grade of "C" or better) of the program prerequisites required for admission and required co-requisite courses, including: Anatomy and Physiology courses 1 & 2 and Microbiology within three attempts and within the past 10 years; General Psychology, Lifespan Growth and Development, English I, and Math (College Algebra or Statistics).
- Completion of required immunizations. (See Immunization Requirements under the Associate Degree Nursing section). Some of these immunizations are taken as a series and may take up to 6 months to complete.
- Submission of copy of current VN license
- Transcript showing successful completion of a Vocational/Practical Nursing Program
- Letter from current employer stating length and type of employment (one year of clinical experience as an LVN/LPN is preferred)
- All documentation related to these admission requirements should be uploaded to nursing@grayson.edu by the posted deadline. Applications will not be accepted until the student has passed the HESI Admission Test. Detailed information about the test is provided in the TE Nursing Program Information Packet.

Selection and Acceptance Procedure (Point system)

- Applications are reviewed for required documentation (after submission deadlines) by the ADN Admissions Committee. Only those with complete files will be considered for admission. It is the applicants responsibility to make sure files are complete.
- Applicants with incomplete files will be kept for one additional admission period.
- Students with the highest points will be selected first. In the case where applicants having equal points must be chosen for limited space availability, the selection will be made by the Admissions committee and/or Program Director, based on GPA & HESI scores.
- Applicants will be notified via email regarding selection or non-selection within six weeks of final deadline date. Final acceptance is contingent upon completion of final acceptance requirements, listed below:
- Applicants with complete files will be evaluated for selection by a point system. A grade of "C" or better must be obtained in all required courses.
 - # Required science courses (Microbiology, and Anatomy & Physiology I & II) earn points based on grade received. (Maximum = 18 points)
 - # For 4 credit hour courses
 - # A = 6 points
 - # B = 4 points

- # C = 2 points
- # **For each separate theory/lab course**
 - # **A = 3 points**
 - # **B = 2 points**
 - # **C = 1 point**
- # Required academic courses earn one (1) point for each course completed with a "C" or better (English Composition I, General Psychology, Life Span Growth and Development, Algebra/Statistics and Language/Philosophy/Culture/Creative Core Course). (Maximum = 5 points)
- # Hesi Admission Test (Maximum = 3 points)
 - # 89.5 – 100 = 3 points
 - # 79.5 – 89.4 = 2 points
 - # 74.5 – 79.4 = 1 point
 - # < 74.4 = ineligible for admission into the ADN program
- # Grayson College Service Area residency (Maximum = 2 points)
- # The total maximum number of points that can be earned is 28 points

Final Acceptance Requirements (Following notification of admission)

- Complete background checks required by the Board of Nursing within the time frame specified in the acceptance letter. Failure to do so will result in loss of accepted status.
- Return form verifying intent to accept or decline admission.
- Complete mandatory orientation requirements, which includes attendance at scheduled orientation day.
- Pass a urine drug screen (as stipulated by the nursing program).
- Pass an additional background check (as stipulated by the nursing program).
- Obtain CPR certification. (American Heart; Basic Life Support Provider level with a face to face demonstration check off).
- Submit proof of a current negative TB (tuberculosis) test or negative chest x-ray.
- Obtain annual influenza vaccination as recommended by the CDC in the fall of each year.
- Obtain a physical exam from a healthcare provider (form provided with acceptance packet).

Contact information regarding program approval and accreditation:

Texas Board of Nursing, 333 Guadalupe Street #3-460, Austin, TX 78701, (512) 305-7400 <http://www.bon.state.tx.us>

Accreditation Commission for Education in Nursing, 33 Peachtree Road NE, Suite 850, Atlanta, GA 30326, (404) 975-5000 <http://www.acenursing.org>

LVN to RN TE - TE Option

LVN to RN Transitional Entry Option

Subject	Semester Hours
PREREQUISITES	
*BIOL 2401 or 2301 and 2101	4
*BIOL 2420 or 2320 and 2120	4
PSYC 2301 (General Psychology)	3
	11
PREREQUISITES	
*BIOL 2402 or 2301 and 2102	4
PSYC 2314 (Lifespan, Growth & Development)	3
ENGL 1301 (Composition I)	3
* MATH 1314 or 1342	3
	13
Co-Requisites	
Lang/Phil/Culture/Creative Arts Core	3
	3
First Semester	
RNSG 1227	2
RNSG 1413	4

	6
Second Semester	
RNSG 2414 (Integrated Care of the Patient with Complex Health Care Needs)	4
RNSG 2462 (Clinical)	4
	8
Third Semester	
RNSG 2435 (Integrated Client Care Management)	4
RNSG 2463 (Clinical)	4
	8

Upon successful completion of the two TE courses, the TE student will receive 11 semester credits for courses equivalent to vocational nursing courses.

Capstone Requirement: Successful completion of RNSG 2435 and 2463.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. Nursing has specific core requirements (see notations below). The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra*

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods*

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I *

BIOL 2302/2102 Anatomy & Physiology II *

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors *

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology*
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I*
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

*Courses required for nursing majors.

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

RNSG 1119 - Integrated Nursing Skills (Nursing 1)

Study of the concepts and principles necessary to perform basic nursing skills for care of diverse patients across the life span; demonstrate competence in the performance of nursing procedures. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- RNSG 1119 must be taken concurrently with RNSG 1423 and RNSG 1360.
- A grade of "PASS" is required to progress to Nursing 2 courses.

RNSG 1144 - Nursing Skills (Nursing 2)

Study of the concepts and principles necessary to perform intermediate or advanced nursing skills for the adult patient; and demonstrate competence in the performance of nursing procedures. Content includes knowledge, judgment, skills and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- This course must be taken concurrently with RNSG 2404 and RNSG 1461.
 - A grade of "PASS" is required to progress to Nursing 3 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1227 - Transition from Vocational to Professional Nursing. LVN to RN Transitional Entry

Content includes health promotion, expanded assessment, analysis of data, critical thinking skills and systematic problem solving process, pharmacology, interdisciplinary teamwork, communication, and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework throughout the life span.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- RNSG must be taken concurrently with RNSG 1413.
 - After satisfactory completion of this course and RNSG 1413, the LVN/LPN will enter Nursing 3.
 - A grade of "C" or better is required before credit award is given and the student proceeds on to Nursing 3.
-

RNSG 1360 - Clinical (Nursing 1)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 3.0

Lab hours: 12.0

Restrictions:

- This course must be taken concurrently with RNSG 1119 and RNSG 1423
 - A grade "PASS" is required to progress to Nursing 2 courses.
 - Requires 12 hours of clinical time / week
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1413 - Foundations for Nursing Practice – LVN to RN Transitional Entry

Introduction to the role of the professional nurse as provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Content includes fundamental concepts of nursing practice, history of professional nursing, and a systematic framework for decision-making and critical thinking. Application of concepts related to nursing care of patients across the life span including common childhood/

adolescent diseases, uncomplicated perinatal care, mental health concepts, perioperative care, frequently occurring adult health problems and health issues related to aging. Emphasis on knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Restrictions:

- RNSG 1413 must be taken concurrently with RNSG 1227.
 - After satisfactory completion of this course and RNSG 1227, the LVN / LPN will enter Nursing 3.
 - A grade of "C" or better is required before credit award is given and student proceeds on to Nursing 3.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1423 - Introduction to Professional Nursing for Integrated Programs (Nursing 1)

Introduction to the profession of nursing including the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of health care team, and member of profession with emphasis on health promotion and primary disease prevention across the life span; essential components of the nursing health assessment; identification of deviations from expected health patterns; the application of a systematic, problem-solving process to provide basic nursing care to diverse patients across the life span; and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- RNSG 1423 must be taken concurrently with RNSG 1119 and RNSG 1360.
 - A grade of "C" or better is required to progress to Nursing 2 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1461 - Clinical (Nursing 2)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 4.0

Lab hours: 12.0

Restrictions:

- This course must be taken concurrently with RNSG 1144 and RNSG 2404.
 - A grade of "PASS" is required to progress to Nursing 3 courses.
 - Requires 12 hours of clinical time / week
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2404 - Integrated Care of the Patient with Common Health Care Needs (Nursing 2)

Application of a systematic problem-solving process, critical thinking skills and concepts to provide nursing care to diverse patients and families across the life span with common health care needs including, but not limited to, common childhood/adolescent diseases, uncomplicated perinatal care, mental health concepts, perioperative care,

frequently occurring adult health problems and health issues related to aging. Emphasis on secondary disease prevention and collaboration with members of the interdisciplinary health care team. Content includes roles of the professional nurse and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to an integrated approach.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- RNSG 2404 must be taken concurrently with RNSG 1144 & 1461.
 - A grade of "C" is required to progress to Nursing 3
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2414 - Integrated Care of the Patient with Complex Health Care Needs (Nursing 3)

Application of a systematic problem-solving process, critical thinking skills and concepts to provide comprehensive nursing care to diverse patients and families across the life span with complex health care needs including, but not limited to, complex childhood/adolescent diseases, complicated perinatal care, acute mental illness, complex perioperative care, serious adult health problems and health issues related to aging. Emphasis on tertiary disease prevention, health maintenance/restoration and collaboration with members of the interdisciplinary health care team. Content includes the roles of the professional nurse and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- Must be taken concurrently with RNSG 2462.
 - A grade of "C" or better is required to progress to Nursing 4 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2435 - Integrated Client Care Management (Nursing 4)

Application of independent nursing interventions to care for diverse patients and families throughout the lifespan whose healthcare needs may be difficult to predict. Emphasis on collaborative clinical reasoning, nursing leadership skills, and patient management. Content includes the significance of professional development, trends in nursing and healthcare, and applicable knowledge, judgement, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- Must be taken concurrently with RNSG 2463.
 - A grade of "C" or better is required.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2462 - Clinical (Nursing 3)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 4.0

Lab hours: 15.0

Restrictions:

- This course must be taken concurrently with RNSG 2414.
 - A grade of "PASS" is required to progress to Nursing 4 courses.
 - RNSG 2462 requires 15 Hours of clinical time/week
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2463 - Clinical (Nursing 4)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lab hours: 15.0

Restrictions:

- This course must be taken concurrently with RNSG 2435. A grade of "PASS" is required.
 - RNSG 2463 requires 15 Hours of clinical time/week
 - Must be taken in sequence as listed in degree plan.
-

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	3
HAMG 1340 (Hospitality Legal Issues)	3
HAMG 1221 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
*Social/Behavioral Science Core	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 1213 (Front Office Procedures)	3
*HAMG, PSTR, CHEF or FDST Elective	
* SPCH 1311 or 1321	3
CHEF 2231 (Advanced Food Preparation)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
*Lang, Phil, Culture/Creative ARTS CORE	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	3
CHEF 1314 (A La Carte Cooking)	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	2
CHEF 1301 (Basic Food Preparation)	3
HAMG 1221 (Introduction to Hospitality Industry)	2
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301 (Fundamentals of Baking)	3
HAMG 1319 (Computers in Hospitality)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1345 (International Cuisine)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 2331 (Advanced Pastry Shop)	3
HAMG 1324 (Hospitality Human Resources Management)	3
CHEF 1310 (Garde Manger)	3
RSTO 1304 (Dining Room Service)	3
CHEF 1302 (Principles of Healthy Cuisine)	3
CHEF 1314 (A La Carte Cooking)	3
*Social/Behavioral Science Core	3
CHEF 1164 (Practicum or Field Experience)	1
IFWA 1210 (Nutrition and Menu Planning)	2

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
HAMG 2301 (Principles of Food and Beverage Operations)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
HAMG 2332 (Hospitality Financial Management)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
HAMG 1213 (Front Office Procedures)	2

HAMG 2167 (Practicum or Field Experience)	1
HAMG 2305 (Hospitality Management and Leadership)	3

Culinary Arts Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1345 (International Cuisine)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1302	3
HAMG 1319 (Computers in Hospitality)	3
* IFWA 1210 or BIOL 1322	2
CHEF 1314 (A La Carte Cooking)	3
RSTO 1304 (Dining Room Service)	3
PSTR 2331 (Advanced Pastry Shop)	3
CHEF 1310 (Garde Manger)	3
CHEF 1164 (Practicum or Field Experience)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Basic Culinary Skills Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
PSTR 1301 (Fundamentals of Baking)	3
* EDU 1300/PSYC 1300	3
CHEF 1345 (International Cuisine)	3
CHEF 1310 (Garde Manger)	3
CHEF 2231 (Advanced Food Preparation)	2
RSTO 1304 (Dining Room Service)	3
POFT 1120 (Job Search Skills)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Catering and Event Planning Certificate

Subject	Semester Hours
TRVM 2333 (Applied Convention)	3
CHEF 1205* (Sanitation and Safety)	2
TRVM 1327 (Special Events Design)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 2307 (Catering)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1310 (Garde Manger)	3
FDST 2433 (Wine Types and Sensory Eval)	4
POFT 1120 (Job Search Skills)	1

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

RSTO 1304 - Dining Room Service

Introduces the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
-

RSTO 2307 - Catering

Principles, techniques, and applications for both on-premises, off-premises, and group marketing of catering operations including food preparation, holding, and transporting techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Chemistry

Overview

For students planning to pursue a Chemistry major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

SCIT 1305 - Intro to Ag Chemistry

Introduction to chemical components in agricultural applications. Topics include metric system, nomenclature, solutions, and pH in relation to the areas of soils and agricultural applications. Additional topics include chemical composition of grapes and wine, importance of pH in winemaking, titratable acidity, buffer capacity and equilibriums in wine, and fermentation end products.

Upon completion, students will be able to:

- chemical components in agricultural applications.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I
-

Sociology

Overview

For students interested in pursuing an Sociology degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

SOCI 1301 - Introduction to Sociology

Introduction to the concepts and principles used in the study of group life, social institutions, and social processes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 1306 - Social Problems

Application of sociological principles to the major problems of contemporary society such as inequality, crime and violence, substance abuse, deviance, or family problems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 2301 - Marriage & the Family

Sociological examination of marriage and family life. Problems of courtship, mate selection, and marriage adjustment in modern American society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology
-

SOCI 2306 - Human Sexuality

Study of the psychological, sociological, and physiological aspects of human sexuality. Cross-listed as PSYC 2306. Only one of the cross-listed courses can be taken for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology
-

SOCI 2319 - Minority Studies I

Historical, economic, social, and cultural development of minority groups. May include African-American, Mexican American, Asian American, and Native American issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology
-

SOCI 2326 - Social Psychology

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. Cross-listed as PSYC 2319. Only one of the cross-listed courses can be taken for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology
-

SOCI 2336 - Criminology

Current theories and empirical research pertaining to crime and criminal behavior and its causes, methods of prevention, systems of punishment, and rehabilitation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on experience in sociology. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Spanish

Overview

For students interested in pursuing an Spanish degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

SPAN 1300 - Beginning Spanish Conversation I

Basic practice in comprehension and production of the spoken language.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPAN 1411 - Beginning Spanish I

Basic Spanish language skills in listening, speaking, reading and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

SPAN 1412 - Beginning Spanish II

Continued development of basic Spanish language skills in listening, speaking reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [SPAN 1411](#) - Beginning Spanish I
-

SPAN 2311 - Intermediate Spanish I

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SPAN 1412](#) - Beginning Spanish II
-

SPAN 2312 - Intermediate Spanish II

The consolidation of skills acquired at the Introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SPAN 2311](#) - Intermediate Spanish I
-

SPAN 2313 - Spanish for native/Heritage Speakers I

Review and application of skills in reading and writing. Emphasizes vocabulary acquisition, reading, composition, and culture. Designed for individuals with oral proficiency in Spanish. This course is considered equivalent to SPAN 2311.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPAN 2315 - Spanish for native/Heritage Speakers II

Review and application of skills in reading and writing. Emphasizes vocabulary acquisition, reading, composition, and culture. Designed for individuals with oral proficiency in Spanish. This course is considered equivalent to SPAN 2312.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPAN 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of Spanish language and literature.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SPAN 1412](#) - Beginning Spanish II
-

Spanish

Overview

For students interested in pursuing a Spanish degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

SPCH 1311 - Introduction to Speech Communication

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. (R W)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 1315 - Public Speaking

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. (R W)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 1318 - Interpersonal Communication

Application of communication theory to interpersonal relationship development, maintenance, and termination in relationship contexts including friendships, romantic partners, families, and relationships with co-workers and supervisors.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 1321 - Business & Professional Communication

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats. (R W)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Education

Overview

For students interested in pursuing an education degree, Grayson College offers three options as part of the **Public Services Pathway**. Specific options include:

- Associate of Arts in Teaching in Grades 8-12 and other Early Childhood-Grade 12
- Associate of Arts in Teaching in Grades 4-8 and Early Childhood-Grade 12 Special Education
- Associate of Arts in Teaching Early Childhood-Grade 6 Generalists

Courses within the program align with State Board for Educator Certification Pedagogy and Professional Responsibilities Standards. The degree plan satisfies the core requirements for baccalaureate programs at four-year institutions that lead to initial Texas teacher certification.

All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

AAT 8-12 Degree Requirements

Associate of Arts in Teaching (AAT) Education Grades 8-12 and Early Childhood-Grade 12

The AAT in Grades 8-12 and other Early Childhood-Grade 12 licensure satisfies the lower-division requirements for bachelor's degree leading to initial Texas teacher certification in all 8-12 and specialized in EC-12 certification areas.

The Grades 8-12 Certification areas are: 8-12 History, 8-12 Social Studies, 8-12 Mathematics, 8-12 Life Sciences, 8-12 Physical Sciences, 8-12 Science, 8-12 English Language Arts & Reading, 8-12 Computer Science, 8-12 Technology Applications, 8-12 Health Science Technology Education, 8-12 Speech, 8-12 Journalism, 6-12 Business Education, 8-12 Marketing Education, 8-12 Mathematics & Physics, 8-12 Agricultural Sciences and Technology, 6-12 Technology Education, 6-12 Languages other than English, 6-12 Family and Consumer Sciences, 8-12 Dance, 8-12 Mathematics & Physical Science & Engineering, 8-12 Human Development and Family Studies, 8-12 Hospitality, Nutrition and Food Sciences, and 8-12 other content area teaching fields/academic disciplines TBA (Chemistry). The EC-Grade 12 Certification other than Special Education Certificate areas are: EC-12 Music, EC-12 Physical Education, EC-12 Art, EC-12 Health, EC-12 Theatre Arts, EC-12 Technology Applications, EC-12 Languages other than English, and EC-12 other non-special education fields.

Subject	Semester Hours
EDUC 1301 (Intro to the Teaching Profession)	3
ENGL 1301 (Comp I)	3
Approved Math Core	3
HIST 1301 (U.S. History I)	3
* EDUC/PSYC 1300 (Learning Frameworks) or Component Area Option 1	3
EDUC 2301 (Intro to Special Populations)	3
ENGL 1302 (English Comp II)	3
*Elective in Discipline**	3
Approved Life & Physical Sciences Core	3
*Approved Life & Physical Sciences Lab	1
HIST 1302 (Comp II)	3
GOVT 2305 (U.S. Hist II)	3
*Elective in Discipline**	3
*Elective in Discipline	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
TECA 1354 (Child Growth and Development)	3
GOVT 2306 (Federal Govt.)	3
Language, Philosophy & Culture Core	3
Elective in Discipline	3
Approved Component Option Option 2	1
Approved Creative Arts Core	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT 4-8 Degree Requirements

Associate of Arts in Teaching (AAT) Education 4-8 Certification and Early Childhood-Grade 12

The Grade 4-8 and Early Childhood-Grade 12 Special Education degree satisfies the lower division requirements for a bachelor's leading to initial Texas teacher certification in all grades 4-8 certification areas and early childhood-12 special education. The Grade 4-8 Certification areas include: Generalist; ESL Generalist; English Language Arts and Reading; English Language Arts, Reading and Social Studies; Mathematics; Science; Mathematics and Science; Social Studies; other content area teaching fields/academic disciplines/interdisciplinary TBA. This degree is for students who want to teach grades EC-Grade 4 and higher. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

Subject	Semester Hours
EDUC 1301 (Intro to the Teaching Profession)	3
ENGL 1301 (Comp I)	3
Approved Math Core	3
HIST 1301 (U.S. History I)	3
* EDUC/PSYC 1300 (Learning Frameworks) or Component Area Option 1	3
EDUC 2301 (Intro to Special Populations)	3
ENGL 1302 (English Comp II)	3
MATH 1350 (Math for Teachers I)**	3
Approved Life & Physical Sciences Core	3
*Approved Life & Physical Sciences Lab	1
HIST 1302 (Comp II)	3
GOVT 2305 (U.S. Hist II)	3

MATH 1351 (Math for Teachers II)**	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
TECA 1354 (Child Growth and Development)	3
GOVT 2306 (Federal Govt.)	3
Language, Philosophy & Culture Core	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
Approved Component Option Area	3
Approved Creative Arts Core	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT EC-6 Degree Requirements

Associate of Arts in Teaching (AAT) Education Early Childhood-Grade 6 Generalists

The Early Childhood-Grade 6 degree satisfies the lower-division requirements for bachelor's degrees leading to initial Texas teacher certification. EC-6 Certification areas include: Generalist; Bilingual Generalist; ESL Generalist; other content area teaching field/academic disciplines/interdisciplinary TBA. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degrees.

Subject	Semester Hours
EDUC 1301 (Intro to the Teaching Profession)	3
ENGL 1301 (Comp I)	3
Approved Math Core	3
HIST 1301 (U.S. History I)	3
* EDUC/PSYC 1300 (Learning Frameworks) or Component Area Option 1	3
EDUC 2301 (Intro to Special Populations)	3
ENGL 1302 (English Comp II)	3
MATH 1350 (Math for Teachers I)**	3
Approved Life & Physical Sciences Core	3
*Approved Life & Physical Sciences Lab	1
HIST 1302 (Comp II)	3
GOVT 2305 (U.S. Hist II)	3
MATH 1351 (Math for Teachers II)**	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
TECA 1354 (Child Growth and Development)	3
GOVT 2306 (Federal Govt.)	3
Language, Philosophy & Culture Core	3
Approved Life & Physical Sciences Core	3
Approved Life & Physical Sciences Lab	1
Approved Component Option Area	3
Approved Creative Arts Core	3

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Check with a GC academic advisor and the receiving university/college for recommended courses.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area. **Approved core selections for AAT are listed below.**

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I

ENGL 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 2301 Anatomy & Physiology I

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

Language, Philosophy, and Culture (3 hours)

ENGL 2351 Mexican-American Literature

HUMA 1301 Introduction to Humanities I

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Introduction to Theater

MUSI 1306 Music Appreciation

American History (6 hours)

HIST 1301 United States History I

HIST 1302 United States History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

COSC 1301 Introduction to Computing

PHED 1164 Introduction to Physical Fitness and Wellness

COSC 1336 Programming Fundamentals I

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business and Professional Communication

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

TECA 1303 - Families, Schools and Community

A study of the child, family, community and school, including parent education and involvement, family and community lifestyles, child abuse, and current family life issues. Course content must be aligned with as applicable with State Board of Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. The course includes a minimum of 16 hours of field experience.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1311 - Educating Young Children

An introduction to the education of the young child, including developmentally appropriate practices and programs, theoretical and historical perspectives, ethical and professional responsibilities, and current issues. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement

related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations; and the course includes a minimum of 16 hours of field experiences.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1318 - Wellness of the Young Child

A study of the factors that impact the well-being of the young child including healthy behavior, food, nutrition, fitness, and safety practices. Focuses on local and national standards and legal implications of relevant policies and regulations. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth to age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. Course includes a minimum of 16 hours of field experiences.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1354 - Child Growth & Development

A study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Advanced Manufacturing

Overview

Advanced manufacturing technology is used in automated fabrication machinery (robotics) that require skilled technicians to design, program, service and repair. Mechatronics refers to the combination of **mechanics** and **electronics**.

Our hands-on Advanced Manufacturing programs prepare you to go to work as an entry-level service technician, diagnosing, servicing and repairing automated systems. Advanced manufacturing skills are also an excellent supplement to related areas such as electronics and engineering.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303 (Technical Calculations)	3
EDUC 1300 (Learning Frameworks)	3
* CRIJ 1307 or HIST 1301	3
MATH 1332 (Contemporary Mathematics)	3
MCHN 1320 (Precision Tools and Measurements)	3
ELPT 1311 (Fundamentals of Electricity)	3
MCHN 1302 (Print Reading for Machine Trade)	3
ENGL 1301 (Composition I)	3
* ARTS 1301 or PHIL 1301	3
MCHN 1371 (Manufacturing Skills Standards)	3
QCTC 1343 Quality Assurance)	3
MCHN 1438 (Basic Machine Shop I)	4
MCHN 1454	4
ELPT 2319 (Programmable Logic Controllers I)	3
MCHN 1326 (Intro to Computer Aided Manufacturing)	3
INMT 1391 (Special Topics in Manufacturing Tech.)	3
ELPT 1441 (Motor Control)	4
INMT 2688 (Internship-Manufacturing Technology/ Technician)	6

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
TECH 1303 (Technical Calculations)	3
MCHN 1320 (Prec Tools & Measure)	3
ELPT 1311 (Basic Electrical Theory)	3
MCHN 1302 (Print Rdng for Mchn)	3
MCHN 1371 (MSSC Local Needs)	3
QCTC 1343 (Quality Assurance)	3
MCHN 1438 (Basic Mch Shop I)	4
ELPT 2319 (PLC'S I)	3
MCHN 1326 (CAM)	3
INMT 1391 (Spec Top in Mfg Technology)	3
ELPT 1441 (Motor Controls)	4
INMT 2688 (Internship Mfg Tech)	6
	41

Mechatronics Technician Certificate

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
WLDG 1421 (Intro to Welding Fundamentals)	4
HART 1407 (Refrigeration Principles)	4
DFTG 1405 (Technical Drafting)	4

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

TECM 1303 - Technical Calculations

Specific mathematical calculations required by business, industry, and health occupations. Solve technical math problems using addition, subtraction, multiplication, and division; convert between whole numbers, fractions, mixed numbers, and decimals; perform calculations involving percent, ratios, and proportions; and convert numbers to different units of measurement (standard and/or metric).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	3
HAMG 1340 (Hospitality Legal Issues)	3
HAMG 1221 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
*Social/Behavioral Science Core	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 1213 (Front Office Procedures)	3
*HAMG, PSTR, CHEF or FDST Elective	
* SPCH 1311 or 1321	3
CHEF 2231 (Advanced Food Preparation)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
*Lang, Phil, Culture/Creative ARTS CORE	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	3
CHEF 1314 (A La Carte Cooking)	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
CHEF 1205* (Sanitation and Safety)	2
CHEF 1301 (Basic Food Preparation)	3
HAMG 1221 (Introduction to Hospitality Industry)	2
ENGL 1301 (Composition I)	3
* MATH 1332 or 1314	3
* SPCH 1311 or 1321	3
*Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301 (Fundamentals of Baking)	3
HAMG 1319 (Computers in Hospitality)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1345 (International Cuisine)	3

HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 2331 (Advanced Pastry Shop)	3
HAMG 1324 (Hospitality Human Resources Management)	3
CHEF 1310 (Garde Manger)	3
RSTO 1304 (Dining Room Service)	3
CHEF 1302 (Principles of Healthy Cuisine)	3
CHEF 1314 (A La Carte Cooking)	3
*Social/Behavioral Science Core	3
CHEF 1164 (Practicum or Field Experience)	1
IFWA 1210 (Nutrition and Menu Planning)	2

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
HAMG 2301 (Principles of Food and Beverage Operations)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2307 (Hospitality Marketing and Sales)	3
HAMG 2332 (Hospitality Financial Management)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1319 (Computers in Hospitality)	3
HAMG 1324 (Hospitality Human Resources Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
HAMG 1213 (Front Office Procedures)	2
HAMG 2167 (Practicum or Field Experience)	1
HAMG 2305 (Hospitality Management and Leadership)	3

Culinary Arts Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
HAMG 1340 (Hospitality Legal Issues)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1345 (International Cuisine)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1302	3
HAMG 1319 (Computers in Hospitality)	3
* IFWA 1210 or BIOL 1322	2
CHEF 1314 (A La Carte Cooking)	3

RSTO 1304 (Dining Room Service)	3
PSTR 2331 (Advanced Pastry Shop)	3
CHEF 1310 (Garde Manger)	3
CHEF 1164 (Practicum or Field Experience)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Basic Culinary Skills Certificate

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1205* (Sanitation and Safety)	2
HAMG 1221 (Introduction to Hospitality Industry)	2
PSTR 1301 (Fundamentals of Baking)	3
*EDU 1300/PSYC 1300	3
CHEF 1345 (International Cuisine)	3
CHEF 1310 (Garde Manger)	3
CHEF 2231 (Advanced Food Preparation)	2
RSTO 1304 (Dining Room Service)	3
POFT 1120 (Job Search Skills)	1

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Catering and Event Planning Certificate

Subject	Semester Hours
TRVM 2333 (Applied Convention)	3
CHEF 1205* (Sanitation and Safety)	2
TRVM 1327 (Special Events Design)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1340 (Hospitality Legal Issues)	3
RSTO 2307 (Catering)	3
CHEF 2231 (Advanced Food Preparation)	2
CHEF 1310 (Garde Manger)	3
FDST 2433 (Wine Types and Sensory Eval)	4
POFT 1120 (Job Search Skills)	1

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

TRVM 1327 - Special Events Design

The development of a special event from the conceptual stage through completion. Emphasis on industry terminology, factors to consider when planning a special event, and contingency plans.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

TRVM 2333 - Applied Convention/Meetings Management

Practical application of meetings and exposition skills through a case study or participation in a conference/meeting. Includes integration of meeting planning tools that compare and discriminate between key areas of program development and convention objectives.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Vocational Nursing

Overview

The Grayson College Vocational Nursing program requires 46 credit hours and can be completed in 12 months. The Vocational Nursing Program meets five days a week and is considered a full time program. Classes begin in August and students complete three (3) semesters and one (1) minimester with scheduled breaks, completing the program the next July. Clinical course rotations may vary to include day or evening shifts. Upon successful completion of the program, graduates are awarded a certificate in vocational nursing. Graduates must subsequently apply to take the NCLEX-PN exam. If successfully completed, the graduate will be issued a license to practice nursing as a licensed vocational nurse (LVN) by the Texas Board of Nursing.

Detailed information about the program is provided in an information packet, available by sending an email request to lvn@grayson.edu. The applicant should request the Vocational Nursing Information Packet. The packet will be sent to the applicant via email. Completion of this information packet is required for all applicants to the program.

The following general information about the vocational nursing program is current at the time of printing, but all information is subject to change without notice or obligation.

Information for Prospective Students

Detailed information about the program is provided in the VN Information Packet. This packet is available by sending an email request to LVN@grayson.edu. Completion of this information packet is required by June 10th of every year for all applicants to the program.

Graduation Rates:

- Class of 2015 - 76%
- Class of 2016 - 78%
- Class of 2017 - 63%

Graduates' Success on the NCLEX-PN Licensure exam:

- Class of 2015 - 88.24%
- Class of 2016 - 84.85%

- Class of 2017 - 88.89%

Job Placement Rates of Graduates:

- Class of 2015 - 91%
- Class of 2016 - 96%
- Class of 2017 - 98%

Accreditation Status

Approved by: Texas Board of Nursing, 333 Guadalupe, Suite 3-460, Austin, TX 78701 Phone: 512.305.7400
www.bon.state.tx.us

Core Performance Standards/Physical & Mental Capabilities

In order to accomplish the objectives of the program, students must be able to meet certain core performance standards. These standards are listed in the VN Information Packet.

Admission Information

Admission to the nursing program is selective, with registration in nursing courses by permission only. Admission to the college does not guarantee admission to the Vocational Nursing Program. To be considered for acceptance into the program, applicants must submit all required application information by the deadlines posted in the VN Information Packet.

Minimum Admission Requirements:

1. Admission to Grayson College
2. Application to the Vocational Nursing Program. The application closing date is found in the Vocational Nursing Information Packet obtained by emailing drydene@grayson.edu.
3. Submission of copy of High School transcript or GED to VN Program
4. Completion of the TSI (Texas Success Initiative Assessment), if not taken previously. Information may be found at <http://www.grayson.edu>.
5. Submission of copies of college transcripts from colleges or universities previously attended to VN Program
6. Completion of HESI Admission Exam with score of 75 or higher on cumulative total of required sections. (HESI Admission exam may be taken two (2) times in a 12 month period).
7. Documentation of current enrollment or successful completion of BIOL 2404 (Survey of Anatomy and Physiology) -or- Human Anatomy and Physiology I and II with labs with a grade of "C" or better.
8. Documentation of ability to complete all required immunizations prior to the start of classes in August. This includes Hepatitis B series, MMR, tetanus and varicella. These immunizations are taken in series and can take up to six (6) months to complete.

All documentation related to these admission requirements should be submitted to the VN Program Assistant by the posted deadline. Applications will not be considered for acceptance until the applicant has taken and passed the HESI Admission Exam. Details about the exam are provided in the VN Information Packet.

Selection and Acceptance Procedure

1. Applicants are reviewed for required documentation (after submission deadlines) by the VN Admissions Committee.
2. Only those with complete files will be considered for admission.
3. Applicants with complete files will be evaluated for selection based on HESI Admission Exam scores. Applicants must have a minimum cumulative score of 75 or higher on required sections.
4. Applicants will be assessed on point system:
 - Completion of prerequisite course (BIOL 2404) with grade "C" or better must be obtained in the course.
 - Completion of concurrent courses (PSYC 2314 and HPRS 2300) with grade "C" or better in each course.
 - HESI scores.
5. Applicants will be notified in writing regarding acceptance, standby, alternate or denied status, within 2 weeks of the final deadline date. Applicants will be asked to return a form documenting acceptance of their status. Failure to do so by the specified date will result in acceptance being forfeited.
6. Final acceptance is contingent upon completion of final acceptance requirements, listed below:

Final Acceptance Requirements (Following notification of admission)

1. Application to Texas Board of Nursing (BON) to complete mandatory DPS/FBI background check and fingerprint scan. Instructions on completing the application to the BON are contained in the notification of admission letter received by the applicant. This must be completed within the time frame specified in the acceptance letter.

2. Obtain CPR certification. American Heart Association Healthcare Provider level with a face-to-face demonstration check off.
3. Completed Medical Exam Form (provided at orientation by GC)
4. Submit proof of a negative TB (tuberculosis) test or negative chest X-ray
5. Complete mandatory orientation requirements. Failure to attend will result in acceptance being forfeited.
6. Pass a urine drug screen and an additional criminal background check, as specified by the Vocational Nursing Program.

Transfer of College Coursework

Students who desire admission to GC must adhere to the GC course transfer policies outlined in the GC Student Handbook. This includes submitting official copies of transcripts from each college or university previously attended to the Office of Admissions and Records and a copy of the transcripts to the VN Program. The Office of Admissions and Records will not send a copy to the VN office. Nursing courses are accepted for transfer only with prior approval of the VN Program Director.

Contact information regarding program approval:

Texas Board of Nursing
 333 Guadalupe St #3-460
 Austin, TX 78701
 512-305-7400
<http://www.bon.state.tx.us/>

Certificate Degree Requirements

Vocational Nursing Certificate

Subject	Semester Hours
BIOL 2404 (Anatomy & Physiology)	4
VNSG 1304 (Foundations of Nursing)	3
VNSG 1502 (Applied Nursing Skills I)	5
VNSG 1226 (Gerontology)	2
* VNSG 1133 or PSYC 2314	1
VNSG 1360 (Clinical-LVN Training I)	3
* VNSG 1331 or HPRS 2300	3
VNSG 1509 (Nursing in Health & Illness II)	5
VNSG 1230 (Maternal-Neonatal Nursing)	2
VNSG 1334 (Pediatrics)	3
VNSG 1361 (Clinical II)	3
VNSG 1219 (Leadership and Professional Development)	2
VNSG 1162 (Clinical-LVN Training II)	1
VNSG 2510 (Nursing in Health & Illness III)	5
VNSG 1262 (Clinical-LVN Training III)	2
VNSG 1238 (Mental Illness)	2

The Semester Credit Hours are based on a 16-week semester. The Grayson College vocational Nursing Program adapts the hours to accommodate three (3) 14-week semesters and one (1) three-week minimester.

Capstone Requirement: An external exit exam requirement is included in VNSG 2510.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

VNSG 1133 - Growth & Development

Study of the basic aspects of growth and development throughout the life span. Focus on growth and development of the individual's body, mind, and personality as influenced by the environment.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 1.0
Lecture hours: 1.0

VNSG 1162 - Clinical-LVN Training II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: P
Credit hours: 1.0
Lecture hours: 1.0
Lab hours: 18.0

VNSG 1219 - Leadership and Professional Development

Study of the importance of professional growth. Topics include the role of the Licensed Vocational Nurse in the multi-disciplinary health care team, professional organizations, and continuing education.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

VNSG 1226 - Gerontology.

Overview of the normal physical, psychosocial, and cultural aspects of the aging process. Addresses common disease processes of aging. Exploration of attitudes toward care of the older adult.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

VNSG 1230 - Maternal-Neonatal Nursing

A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process in the assessment and management of the childbearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

VNSG 1238 - Mental Illness

Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

VNSG 1262 - Clinical-LVN Training III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: P
Credit hours: 2.0
Lecture hours: 2.0
Lab hours: 18.0

VNSG 1304 - Foundations of Nursing

Introduction to the nursing profession including history, standards of practice, legal and ethical issues, and role of the vocational nurse. Topics include mental health, therapeutic communication, cultural and spiritual diversity, nursing process, and holistic awareness.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

VNSG 1331 - Pharmacology

Fundamentals of medications and their diagnostic, therapeutic, and curative effects. Includes nursing interventions utilizing the nursing process.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

VNSG 1334 - Pediatrics

Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and development needs utilizing the nursing process.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

VNSG 1360 - Clinical-LVN Training I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: P
Credit hours: 3.0
Lab hours: 14.0

VNSG 1361 - Clinical II

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: P
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 18.0

VNSG 1502 - Applied Nursing Skills I

Introduction to and application of primary nursing skills. Emphasis on utilization of the nursing process and related scientific principles.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 5.0
Lecture hours: 4.0
Lab hours: 4.0

VNSG 1509 - Nursing in Health & Illness II

Introduction to common health problems requiring medical and surgical intervention.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 5.0
Lecture hours: 5.0

VNSG 2510 - Nursing in Health & Illness III

Continuation of Nursing in Health and Illness II. Further study of common medical-surgical health problems of the client including concepts of mental illness. Incorporates knowledge necessary to make the transition from student to graduate vocational nurse.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 5.0
Lecture hours: 5.0

Welding

Overview

The Welding Program will prepare you for most of the basic welding processes to join such metals as carbon, aluminum, and stainless steel, which will provide you with the information and training to step directly into

employment. The program will also prepare you for many types of employment related to welding, such as engineering, quality control, manufacturing technician, etc.

Grayson College offers an Associate of Applied Science degree and two certificate of completions that train students in **Combination Welding** and **Structural Welding**.

Many of the Welding courses may be taken for non-credit through the College's Continuing Education division. Classes are available on the Main Campus and the South Campus.

Course Requirements

The Associate Degree, the Structural Welder Certificate and the Combination Welder Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have completed the TSI requirements.

Capstone Experience

Graduation with the Associate of Applied Science Degree in Welding or the completion of the Combination or Structural Welding Certificate requires successful completion of a Comprehensive Exit Exam.

Local Employers

ACS, B-Line, Caterpillar, Champion Coole,r Custom Bodies, Dutec Magna-Fab, Meuller Construction, Progress Rail, Plyler Construction, Weld-Co

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
WLDG 1421 (Introduction to Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding)	4
DFTG 1309 (Basic Computer-Aided Drafting)	3
MATH 1332 (Contemporary Mathematics)	3
WLDG 1457 (Intermediate Shielded Metal Arc Welding)	4
WLDG 1430 (Introduction to Gas Metal Arc)	4
*Life, Phil, Culture/Creative Arts Core	3
BUSI 2309 (Small Business Management)	3
WLDG 1434 (Introduction to Gas Tungsten Arc Welding)	4
DFTG 1325 (Blueprint Reading)	3
WLDG 2447 (Advanced Gas Metal Arc Welding)	4
ENGL 1301 (Composition I)	3
*Social & Behavioral Science	3
WLDG 2451 (Advanced Gas Tungsten Arc Welding)	4
WLDG 2406 (Intermediate Pipe Welding)	4
SPCH 1321 (Business & Professional Communication)	3
HART 1401 (Basic Electricity for HVAC)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Welding—Combination Welder Certificate

Subject	Semester Hours
WLDG 1421 (Introduction to Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding)	4
WLDG 1457 (Intermediate Shielded Metal Arc Welding)	4
WLDG 1430 (Introduction to Gas Metal Arc Welding)	4
WLDG 1434 (Introduction to Gas Tungsten Arc Welding)	4
WLDG 2406 (Intermediate Pipe Welding)	4
DFTG 1325 (Blueprint Reading)	3
WLDG 2451 (Advanced Gas Tungsten Arc Welding)	4
WLDG 2447 (Advanced Gas Metal Arc Welding)	4

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Welding—Structural Certificate

Subject	Semester Hours
WLDG 1421 (Introduction to Welding Fundamentals)	3
WLDG 1428 (Introduction to Shielded Metal Arc Welding)	3
WLDG 1430 (Introduction to Gas Metal Arc Welding)	3
WLDG 1457 (Intermediate Shielded Metal Arc Welding)	3

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

WLDG 1421 - Introduction to Welding Fundamentals

An introduction to the fundamentals of equipment used in oxyacetylene and arc welding including welding and cutting safety, basic oxyacetylene welding and cutting, basic arc welding processes and basic metallurgy.

Upon completion, students will be able to:

- Learn fundamentals of equipment used in oxyacetylene and arc welding

- Basic arc welding processes and basic metallurgy.

Grade Basis:

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1428 - Introduction to Shielded Metal Arc Welding (SMAW)

An introduction shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.

Upon completion, students will be able to:

- Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1430 - Introduction to Gas Metal Arc (MIG) Welding

A study of the principles of gas metal arc welding, setup and use of GMAW equipment, and safe use of tools/equipment. Instruction in various joint designs.

Upon completion, students will be able to:

- Learn safe use of tools/equipment

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1434 - Introduction to Gas Tungsten Arc (TIG) Welding

An introduction to the principles of gas tungsten arc welding (GTAW), setup/use of GTAW equipment and safe use of tools and equipment. Welding instruction in various positions on joint designs.

Upon completion, students will be able to:

- Principles of gas tungsten arc welding
- setup/use of GTAW equipment

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1435 - Introduction to Pipe Welding

An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld position 1G and 2G using various electrodes.

Upon completion, students will be able to:

- Emphasis on weld position 1G and 2G using various electrodes.
- Welding of pipe using the shielded metal arc welding process

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1421](#) - Introduction to Welding Fundamentals

- [WLDG 1428](#) - Introduction to Shielded Metal Arc Welding (SMAW)
-

WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)

A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions. Prerequisites: WLDG 1421, Introduction to Welding Fundamentals and WLDG 1428, Introduction to Shielded Metal Arc Welding (SMAW)

Upon completion, students will be able to:

- learn fillets and groove welds
- Preparation of specimens for testing in all test positions

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1421](#) - Introduction to Welding Fundamentals
 - [WLDG 1428](#) - Introduction to Shielded Metal Arc Welding (SMAW)
-

WLDG 2447 - Advanced Gas Metal Arc (MIG) Welding

Advanced topics in GMAW welding, including welding in various positions and directions.

Upon completion, students will be able to:

- learn welding in various positions and directions.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1430](#) - Introduction to Gas Metal Arc (MIG) Welding
-

WLDG 2451 - Advanced Gas Tungsten Arc (TIG) Welding

Advanced topics in GTAW welding, including welding in various positions and directions. Prerequisite: WLDG 1434, Introduction to Gas Tungsten Arc (TIG) Welding.

Upon completion, students will be able to:

- Introduction to Gas Tungsten ARC (TIG) Welding

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1434](#) - Introduction to Gas Tungsten Arc (TIG) Welding
-

Last updated: 03/28/2018

Grayson College

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