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Medical Laboratory Technology

Program Description

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. Upon graduation and initial employment, the medical laboratory technician should be able to demonstrate entry-level competencies in the following areas of professional practice.

- Collecting, processing, and analyzing biological specimens and other substances;
- Performing analytical tests of body fluids, cells, and other substances;
- Recognizing factors that affect procedures and results, and taking appropriate actions within predetermined limits when corrections are indicated;
- Performing and monitoring quality control within predetermined limits;
- Performing preventive and corrective maintenance of equipment and instruments or referring to appropriate sources for repairs;
- Applying principles of safety;
- Demonstrating professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public;
- Recognizing the responsibilities of other laboratory and health care personnel and interacting with them with respect for their jobs and patient care;
- Applying basic scientific principles in learning new techniques and procedures;
- Relating laboratory findings to common disease processes, and
- Establishing and maintaining continuing education as a function of growth and maintenance of professional competence.

Course Curriculum

Summer Session First -Term	Semester Hours	Summer Session Second-Term	Semester Hours	Fall Semester	Semester Hours	Spring Semester	Semester Hours
ENGL 1301 ITSC 1309	3 <u>3</u> 6	Humanities/Fine Arts Core Course SPCH 1311, 1315 or 1321	3 <u>3</u> 6	MATH 1314 MLAB 1201 MLAB 1335 PLAB 1223 MLAB 1260	3 2 3 2 <u>2</u> 12	MLAB 1231 MLAB 1311 MLAB 1315 MLAB 1127 MLAB 2331 CHEM 1406 OR CHEM 1311 & CHEM 1111	2 3 3 1 3 <u>4</u> 16
Summer Session First -Term	Semester Hours	Summer Session Second Term	Semester Hours	Fall Semester	Semester Hours	Spring Semester	Semester Hours
BIOL 2321 BIOL 2121	3 <u>1</u> 4	PSYC 2301 (may be taken first term)	<u>3</u> 3	MLAB 2534 MLAB 2501 MLAB 2338	5 5 <u>3</u> 13	MLAB 2660 MLAB 2661	6 <u>6</u> 12

Additional Admission Information

ESSENTIAL FUNCTIONS

Candidates for admission into the clinical laboratory technician program must possess abilities and skills in the following areas:

- Observation** - An applicant must have the ability to participate actively in classroom demonstrations, lectures, student laboratory, and clinical practicum sessions. He/she must have the ability to see projected images and discriminate color variations in slide and computer format, as well as in the student laboratory.
- Communication** - The applicant must be able to communicate in English with instructors, fellow students, patients, and other members of the health care team. He/she must be able to write and transmit information clearly, accurately, and efficiently.
- Motor Function** - The applicant must have sufficient motor function to perform a variety of basic and advanced laboratory testing. These may include manipulation of a variety of pipettes, microscopes, phlebotomy equipment, laboratory equipment, and supplies.
- Intellectual, Conceptual, Integrative and Quantitative Abilities** - The applicant must be able to master basic science and clinical laboratory information presented in lecture and laboratory curriculum. He/she must also be able to measure, calculate, reason, analyze, evaluate and synthesize laboratory information / data. Problem solving and interpretation of patient laboratory data is critical to all laboratory practitioners. The applicant must be able to decide when to seek supervisory help in a clinical setting.
- Behavioral and Social Skills** - The applicant must be able to exercise good judgment in the lecture, laboratory, and clinical settings. He/she must be able to complete tasks on time in a mature, sensitive, and effective manner with instructors, co-workers, patients, and other members of the health care team. He/she must be able to work under both relaxed and stressful emergency situations, prioritize tasks, and be able to make correct judgments with regards to patient results. Applicants must be able to be flexible with scheduling and be able to adapt to changing environments in the laboratory. Other professional attributes may include dependability, self-motivation and initiative, maturity, confidentiality and concern for others.

Reasonable accommodation can be made for some disabilities in these areas, but a candidate must be able to perform in a reasonably independent manner. Each applicant to the program must attest that they can meet the abilities and skills listed below before entry into the program.

Selection & Acceptance

Students wishing to enter the MLT program may begin taking basic courses during any semester. The curriculum is designed for academic courses to be started during the first summer session of the two year period. 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 and by start of classes for late acceptance. For spring entry, applications should be submitted by November 1 for early acceptance and by start of classes for late acceptance. Applications will be taken until the class is filled. Class size is limited by availability of clinical sites.

Transcripts (high school and/or college) and the THEA, THEA Quick Test, Quick-TASP or TASP scores should be included with the application.

There are no pre-requisites courses that must be completed prior to acceptance into the MLT program.

Program Requirements

- Health Sciences Application - Make an appointment to meet with the MLT Program Director: 903-463-8779
- THEA Quick Test / THEA Scores - Send a copy of scores (or GCC transcript with scores) to the MLT Program Director
- Physical examination form - Submit after acceptance into the MLT Program
- Liability Insurance - Paid at time of registration
- Mandatory random urine drug screening and criminal background check –Required prior to clinical
- Required Immunizations

Anticipated/Approximate Program Costs	
Tuition: In-district (72 hrs @ \$56/hr)	\$4,032.00
Housing/Room & Board \$1825/semester	7,300.00
Lab Fees	260.00
Textbooks (estimate)	1000.00
Liability Insurance	40.00
Uniform (estimate)	80.00
Scientific calculator (estimate)	15.00
Medical Exams (estimate)	200.00
Certification Exam Fee	150.00
Class Pin (estimate - optional)	60.00
Testing, Transportation, Miscellaneous	500.00
Parking Fee	30.00
Matriculation Fee	70.00
Student ID	14.00
Drug Screen/Criminal background check	82.00
COMPASS/THEA Testing	<u>40.00</u>
Total	\$13,873.00

Gainful Employment Report
Occupation – Medical Laboratory Technology
School OPEID Code – 00357000
CIP Code – 51.1004
Credential Level – 02
SOC Code – 29-2012
Completion Rate
09-10 – 11
On-Time – 2
Job Placement Rate
08-09 – 92.31%
Link to Occupational Profile on O*NET
29-2012.00 - Medical and Clinical Laboratory Technicians
Student Debt
Median – \$13,242

The GCC MLT program is accredited by the National Accrediting Agency of Clinical Laboratory Sciences (NAACLS).

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
5600 N. River Rd., Ste. 720
Rosemont, IL 60018
773-714-8880
<http://www.naacls.org>

For additional information please contact:

www.grayson.edu/update/information.asp
www.grayson.edu/pdf/files/mlab.pdf
Alan Jackson, MS, MT(ASCP)
Program Director, Medical Laboratory Technology
jacksona@grayson.edu
903-463-8779

Brianne Newton, BS, MT (ASCP)
Instructor, Medical Laboratory Technology
newtonb@grayson.edu
903-463-8684

