



Is this the right cluster for you? Take this quiz to find out. Answer “yes” or “no” to the following questions.

Do you like to tinker with cars or small appliances?

Are you interested in insects, snakes, frogs, or other animals?

Do you like team sports?

Do you like working with computers?

Do you like visiting museums?

Do you get good grades in math?

Do you read scientific or technical magazines?

Do you enjoy working on crossword puzzles?

Are you good at building things from scratch?

Does it bother you when people aren't accurate and precise?

If you answered “yes” to five or more of the above questions, this may be the right cluster for you. To get a more specific and scientific measurement of your attitudes and abilities, ask your guidance counselor or teacher about taking a career assessment test or interest inventory.

Ask your guidance counselor which High School Courses and/or GCC Dual- Credit Courses you need to take in order to get started towards a future high demand– high wage occupation!



Grayson County College

6101 Grayson Drive
Denison, Texas 75020
www.grayson.edu

This career cluster falls under John Holland's Personality Types:

Realistic

- Likes to work with animals, tools, or machines; generally avoids social activities like teaching, healing, and informing others;
- Has good skills in working with tools, mechanical or electrical drawings, machines, or plants and animals;
- Values practical things you can see, touch, and use like plants and animals, tools, equipment, or machines; and Sees self as practical, mechanical, and realistic.

Investigative

- Likes to study and solve math or science problems; generally avoids leading, selling, or persuading people;
- Is good at understanding and solving science and math problems;
- Values science; and Sees self as precise, scientific, and intellectual.

Conventional

- Likes to work with numbers, records, or machines in a set, orderly way; generally avoids ambiguous, unstructured activities
- Is good at working with written records and numbers in a systematic, orderly way;
- Values success in business; and Sees self as orderly, and good at following a set plan.



CAREER CLUSTERS

Connecting Education
with Your Future!



Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.



Thanks to the men and women on the cutting edge, we know more than ever before. If you are curious about the universe, dream of exploring new worlds of knowledge, or want to solve the planet's problems, then Science, Technology, Engineering & Mathematics could be the right career cluster for you.





C U S T O M E R K N O W L E D G E & S K I L L S

Engineering and Technology — Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

Design — Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Mechanical — Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Mathematics — Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Physics — Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and subatomic structures and processes.

Engineering & Technology

Engineering Manager 104K+
 Petroleum Engineer 97K+
 Mechanical Engineer 81K+
 Biomedical Engineer 81K+
 Aerospace Engineer 71K+
 Civil Engineer 69K+
 Environmental Engineer 60K+
 Mechatronics Technicians 42K+

Certificates CAD Technician, Drafting Assistant, HVAC Technician, HVAC Installer, Basic Mechatronics Technician	Degrees ASS Drafting/CADD, AS Engineering, AAS Welding, AS Physics, AAS HVAV, AS General Studies, AS Biology, AS Geology, AS Chemistry, AS Physics
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Math & Science

Water Resource Specialist 107K+
 Radio Frequency Identification Device Specialists 85K+
 Remote Sensing Scientists and Technologists 84K+
 Physicist 85K, Materials Scientist 79K+
 Aerospace Engineer 71K+
 Biomedicalist 70K+
 Microbiologist 60K+, Space Scientist 60K+
 Biologist 60K+, Chemist 60K+
 Hydrologist 59K+, Industrial Ecologists 56K+
 Geographer 53K+
 Anthropologist 42K+
 Archeologist 42K+

Certificates CAD Technician, Drafting Assistant, HVAC Technician, HVAC Installer	Degrees ASS Drafting/CADD, AS Engineering, AAS Welding, AS Physics, AAS HVAV, AS General Studies, AS Biology, AS Geology, AS Chemistry, AS Physics
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