

STEM

sciencetechnologyengineeringmath

DEGREES & CERTIFICATES

Area of Study	AA	AS	AAS	Cert
Accounting Technology			AAS	Cert
Administrative Technology			AAS	Cert
Alcohol & Drug Abuse Counseling			AAS	Cert
American Studies – Honors	AA			
Analytical Instrumentation*				Cert
Application Specialization (Computer)				Cert
Architectural Construction & Building Technology				Cert
Architecture*	AA			
Audio Engineering Technology			AAS	Cert
Biology*		AS		
Business		AS		Cert
Chemistry*		AS		
Child Development			AAS	
Child Development Associate Training Marketable Skills				Cert
Church Music	AA			
Coding (Health & Medical)				Cert
Computer-Aided Drafting and Design Advanced Technology*				Cert
Computer-Aided Drafting and Design			AAS	Cert
Computer and Graphics Technology			AAS	Cert
Computer and Network Maintenance Technology			AAS	
Computer Maintenance Technology*				Cert
Computer Science*		AS		
Cosmetology				Cert
Cosmetology High School Dual Credit				Cert
Cosmetology Instructor			AAS	
Cosmetology Student Instructor				Cert
Criminal Justice	AA			
Drama	AA			
Education (Teaching)	AA			
Electrical Construction				Cert
Electrical Technology*			AAS	Cert
English	AA			
Entrepreneurship				Cert
Environmental Science*		AS		
Game Designer				Cert
Game Development Specialist			AAS	
Game Specialist				Cert
General Studies*	AA			
Geology*		AS		
Health Information			AAS	
Humanities	AA			
Industrial Instrumentation*				Cert

Area of Study	AA	AS	AAS	Cert
Industrial Systems Machinist*				Cert
Industrial System Millwright*				Cert
Industrial Systems Technician*			AAS	
Instrumentation Technology*			AAS	Cert
International Business				Cert
Kinesiology/Health	AA			
Kinesiology/Physical Education	AA			
Literature	AA			
Logistics and Supply Chain Management*			AAS	Cert
Management			AAS	Cert
Manufacturing Engineering Technology*			AAS	Cert
Marketing				Cert
Mathematics*		AS		
Mechanical Technology				Cert
Medical Transcription				Cert
Mexican American Studies (Liberal Arts)	AA			
Music	AA			
Music Studio Production				Cert
Network Maintenance Technology (Computer)*				Cert
Nursing, Registered			AAS	
Nursing, Transitional			AAS	
Nursing, Vocational (LVN)				Cert
Paralegal Studies			AAS	Cert
Physics*		AS		
Pipefitter Helper				Cert
Pipefitting Technology*			AAS	Cert
Pre-Engineering*		AS		
Process Instrumentation and Electrical Design*				Cert
Process Piping Design*			AAS	Cert
Process Technology*			AAS	Cert
Safety Management Technology*			AAS	Cert
Social Sciences	AA			
Social Work	AA			
Sound Reinforcement Technology				Cert
Spanish	AA			
Speech Communications	AA			
Substance Abuse Prevention				Cert
Supervision				Cert
Transfer in Allied Health Field	AA			
Visual Arts	AA			
Visual Arts: Imaging	AA			
Welding Inspection Technology				Cert
Welding Technology*			AAS	Cert
Wiring Installation				Cert

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= STEM Major

Discovering STEM Careers

STEM = Science + Technology + Engineering + Math

Science

Science is categorized based on the part of the universe studied: space science, earth science, life science, chemistry and physics.

Careers In Science

- Astronomy, Animal Scientists, Astronomers, Atmospheric and Space Scientists, Biochemists and Biophysicists, Biological Technicians, Chemical Technicians,
- Chemists, Conservation Scientists, Environmental Science and Protection Technicians, Environmental Scientists and Specialists, Epidemiologists, Forensic Scientist,
- Forensic Science Technicians, Physics Teachers, Postsecondary, Microbiologists, Nuclear Technicians
- Natural Sciences Managers, Toxicologists, Physical Anthropology, Geoscientists, Chemists, and Materials Scientists, Biochemists, and Biophysicists,
- Soil and Plant Scientists, Atmospheric Scientists including Meteorologists, Hydrologists, Zoologists and Wildlife Biologists
- Mathematicians also work in many other fields, including: Astronomy and Space Exploration, Climate Study, Medicine, National Security, Robotics, Animated Films

Technology

Technology uses science and engineering to create and troubleshoot computer and information systems. The work often involves designing, testing, maintaining, and improving computer software, hardware, systems, and networks.

Careers In Technology

- Computer and Information Research Scientists, Computer Network Architects, Computer Network Support Specialists
- Computer Programmers, Computer Systems Analysts, Computer User Support Specialists, Database Administrators
- Information Security Analysts, Network and Computer Systems Administrators, Operations Research Analysts Software Developers, Applications, Software Developers,
- Systems Software, Web Developers, Computer Occupations, Computer and Information Systems Managers

Engineering

Engineers and engineering technicians use math, science, and technology to solve real-world problems. The work often involves developing systems, structures, products, or materials.

Careers In Engineering

- Aerospace Engineering and Operations Technicians, Aerospace Engineers, Agricultural Engineers, Architectural and Civil Drafters, Biomedical Engineers,
- Chemical Engineers, Civil Engineering Technicians, Civil Engineers, Computer Hardware Engineers, Electrical and Electronics Drafters, Electrical and
- Electronics Engineering Technicians, Electrical Engineers, Electro-mechanical Technicians, Electronics Engineers, Except Computer,
- Environmental Engineers, Health and Safety Engineers, Except, Mining Safety Engineers and Inspectors, Industrial Engineering Technicians
- Industrial Engineers, Marine Engineers and Naval Architects, Materials Engineers, Mechanical Drafters, Mechanical Engineering Technicians
- Mechanical Engineers, Mining and Geological Engineers, including Mining Safety Engineers, Nuclear Engineers, Petroleum Engineers, Surveying and Mapping Technicians

Math

Math workers use numerical, spatial, and logical relationships to study and solve problems. Mathematics is the technical foundation for science, engineering, and technology.

Careers In Math

- Finance, Accountants, Auditors, Credit Analysts, Psychometricians, Budget Analysts, Hydrologists, National Security Analyst, Computational Biologists
- Mathematicians, Statisticians, Teaching, Cryptologists, Environmental Mathematician, Inventory Strategist, Stockbrokers, Cost Estimators, Market Research Analysts

* *Mathematicians Also Work In Many Other Fields, Including: Astronomy And Space Exploration, Climate Study, Medicine, National Security, Robotics ,animated Films*

For career description and salary information visit the following links:

<http://careers.lee.edu/>

<http://stemjobs.com/category/jobs-2/>

<http://weusemath.byu.edu/>

<http://www.careeronestop.org/>

<http://www.twc.state.tx.us/customers/jsemp/career-exploration-trends.html>

Source: Occupational Outlook Quarterly • Spring 2014 • www.bls.gov/ooq

Source: 2010 Standard Occupational Classification (SOC) System, SOC Policy Committee recommendation to the Office of Management and Budget
Healthcare occupations are not included.

