Degree Programs, Emphasis Areas and Undergraduate Minors

Degree programs are in capitals. Emphasis areas are lower-case subheads followed by degree abbreviation if restricted to that degree level. Undergraduate minors designated MI.

AEROSPACE ENGINEERING (BS,MS,PhD) MI
APPLIED AND ENVIRONMENTAL BIOLOGY (MS)
APPLIED MATHEMATICS (BS,MS) MI
- Actuarial Science (BS)
- Algebra (MS)
- Algebra/Discrete Mathematics (BS)
- Applied Analysis
- Computational Mathematics
- Secondary Education (BS)
- Statistics
ARCHITECTURAL ENGINEERING (BS)
- Construction Eng & Project Mgt
- Construction Materials
- Environmental Systems for Buildings
- Structural Engineering
BILOGICAL SCIENCES (BA, BS) MI
- Pre-Medicine (BA)
- Secondary Education (BA)
BUSINESS ADMINISTRATION (MBA)
BUSINESS AND MANAGEMENT SYSTEMS (BS)
- E-commerce
- Enterprise Resource Planning
- Finance
- Human Computer Interaction
- Management Information Systems
- Marketing
CERAMIC ENGINEERING (BS,MS,PhD)
- Biomaterials (MS)
CHEMICAL ENGINEERING (BS,MS,PhD,DE)
CHEMISTRY (BA,BS,MS,MST,PhD) MI
- Biochemistry (BS)
- Polymer & Coatings Science (BS)
- Pre-Medicine Chemistry (BS)
- Secondary Education (BA)
CIVIL ENGINEERING (BS,MS,PhD,DE)
- Construction Engineering
- Environmental Engineering
- Geotechnical Engineering
- Materials Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering
COMPUTER ENGINEERING (BS,MS,PhD)
- Computational Intelligence (BS)
- Computers and Architecture (BS)
- Embedded Computer Systems (BS)
- Integrated Circuits and Logic Design (BS)
- Networking and Software Engineering (BS)
- Security and Reliability (BS)
COMPUTER SCIENCE (BS,MS,PhD) MI
- Bioinformatics (MS)
- Critical Infrastructure Protection (MS)
- Software Engineering (MS)
EARTH SCIENCES (MST)
ECONOMICS (BA, BS) MI
- Economics/Business (BS)
- Secondary Education (BA)
ELECTRICAL ENGINEERING (BS,MS,PhD,DE)
- Circuits
- Communications-Signal Processing
- Computer Engineering
- Control
- Electromagnetics
- Electronics
- Power
- Solar Energy (MS)
ENGINEERING MANAGEMENT (BS,MS,PhD) MI
- Industrial Engineering (BS)
- Management of Technology (BS)
- Manufacturing Engineering (BS)
- Packaging Engineering (BS)
- Public Works (MS)
- Quality Engineering (BS)
ENGLISH (BA)
- Secondary Education
ENVIRONMENTAL ENGINEERING (BS,MS)
EXPLOSIVES ENGINEERING (MS)
GEOMETRICAL ENGINEERING (BS,MS,PhD,DE) MI
- Engineering Geology and Geotechnics (BS)
- Environ Protect & Haz Waste Mgt (BS)
- Groundwater Hydro & Containment Transport (BS)
- Petroleum, Energy and Natural Resources (BS)
- Quarry Engineering (BS)
- Hazardous Waste Engineering & Science (MS)
GEOLOGY AND GEOPHYSICS (BS,MS,PhD)
- Exploration Geochemistry (MS,PhD)
- Exploration Geophysics (MS,PhD)
- Geochimistry (BS)
- Geology (BS)
- Geophysics (BS)
- Geotechnical Engineering (BS)
- Petroleum & Environmental Geochimistry (BS)
- Petroleum Geology (BS)
GEOTECHNICS (ME)
HISTORY (BA) MI
- Secondary Education
INFORMATION SCIENCE & TECHNOLOGY (BS, MS) MI
- Enterprise Resource Planning
- Human Computer Interaction (BS)
MANUFACTURING ENGINEERING (MS, ME)
MATERIALS SCIENCE AND ENGINEERING (MS,PhD)
MATHEMATICS (MST, PhD) MI
- Analysis (PhD)
- Differential and Functional Equations (PhD)
- Statistics (PhD)
MECHANICAL ENGINEERING (BS,MS,PhD,DE)
- Aerospace Engineering (PhD, DE)
- Control Systems
- Energy Conversion
- Environmental Systems
- Instrumentation
- Manufacturing Processes
- Materials Science
- Mechanical Design and Analysis
- Thermal Science
METALLURGICAL ENGINEERING (BS,MS,PhD)
- Chemical Metallurgy (BS)
- Manufacturing Metallurgy (BS)
- Physical Metallurgy (BS)
MINING ENGINEERING (BS,MS,ME,PhD,DE) MI
- Coal (BS)
- Explosives Engineering (BS)
- Mining & the Environment (BS)
- Mining Health and Safety (BS)
- Quarry Engineering (BS)
- Sustainable Development (BS)
NUCLEAR ENGINEERING (BS,MS,PhD,DE)
PETROLEUM ENGINEERING (BS,MS,PhD,DE) MI
PHILOSOPHY (BA) MI
PHYSICS (BS,MS,MST,PhD) MI
- Applied Physics (BS)
- Geophysics (BS)
- Secondary Education (BS)
PSYCHOLOGY (BA,BS) MI
- Cognitive Neuroscience
- Human Resources/Personnel
- Human Services
- Psychology of Leadership
- Secondary Education (BA, BS)
- Usability of Technology
SYSTEMS ENGINEERING (MS,PhD)
TECHNICAL COMMUNICATION (BS,MS) MI

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### Additional Undergraduate Minors

Enhance your undergraduate degree with one of a wide range of minor programs below or designated MI on the opposite page.

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### Undergraduate Certificates

**Certificates**
- Explosives Engineering - Mining Engineering
- Design - Interdisciplinary Engineering

### Graduate Certificates - dce.mst.edu

Certificate programs give you the opportunity to broaden your knowledge in a discipline, learn the latest in developing fields and stay competitive in today's marketplace. By taking a few courses instead of completing an entire degree program, you will be able to demonstrate advanced knowledge in a field.

**Certificates**
- Actuarial Science - Mathematics
- Business Essentials - Business Administration
- Business Intelligence - Information Science & Technology
- CAD/CAM and Rapid Product Realization - Manufacturing Engineering
- Composite Materials and Structures - Aerospace Engineering/Mechanical Engineering
- Contemporary Structural Engineering - Systems Engineering/Computer Engineering/Computer Science
- Control Systems - Civil Engineering
- Electric Machine and Drives - Electrical Engineering
- Electrical Power Systems Engineering - Electrical Engineering
- Engineering Management - Engineering Management
- Enterprise Resource Planning - Information Science & Technology
- Explosives Engineering - Mining Engineering
- Financial Engineering - Systems Engineering/Systems Engineering
- Financial Mathematics - Systems Engineering
- Geoenvironmental Engineering - Civil Engineering
- Geotechnical Earthquake Engineering - Civil Engineering
- Geotechnics - Geological Engineering
- Human Computer Interaction - Information Science & Technology
- Human Systems Integration - Engineering Management
- Information Assurance and Security - Information Science & Technology
- Infrastructure Renewal - Information Science & Technology
- Leadership in Engineering Organizations - Information Science & Technology
- Lean Six Sigma - Management
- Manufacturing Automation - Manufacturing Engineering
- Manufacturing Systems - Manufacturing Engineering
- Military Construction Management - Civil Engineering
- Military Geological Engineering - Civil Engineering
- Mining Engineering - Mining Engineering
- Multimedia and Information Systems - Computer Science
- Network Centric Systems - Computer Science
- Project Engineering and Construction Management - Computer Science
- Project Management - Computer Science
- Psychology of Leadership - Computer Science
- Psychometrics - Computer Science
- Quality Engineering - Engineering Management
- Software Design and Development - Systems Engineering
- Systems Engineering - Systems Engineering
- Wireless Networks and Mobile Systems - Computer Science

*Explosives Engineering is an approved minor at both the graduate and undergraduate levels.*