Degree Programs, Emphasis Areas, Minors and Certificates
Missouri University of Science and Technology
(Degree programs are in capitals. Emphasis areas are lower case subheads followed by degree abbreviation if restricted to that degree.) as of 07/07/2015

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
BIOLOGICAL SCIENCES (BA, BS) MI
  Pre-Medicine (BA)
  Secondary Education (BA)
BUSINESS ADMINISTRATION (MBA)
BUSINESS AND MANAGEMENT SYSTEMS (BS)
  E-commerce
  Management Information Systems
  Marketing
CERAMIC ENGINEERING (BS, MS, PhD) MI
  Biomaterials (MS)
CHEMICAL ENGINEERING (BS, MS, PhD, DE)
CHEMISTRY (BA, BS, MS, MST, PhD) MI
  Biochemistry (BS)
  Polymer & Coatings Science (BS)
  Pre-Medicine (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) MI
  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
  Critical Infrastructure Protection (MS)
  Software Engineering (MS)
ECONOMICS (BA, BS) MI
  Economics/Business (BS)
  Secondary Education (BA)
ELECTRICAL ENGINEERING (BS, MS, PhD, DE) MI
  Circuits and Electronics
  Communications and Signal Processing
  Computer Engineering
  Controls and Systems
  Electromagnetics
  Optics and Devices
  Power and Energy
  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, PhD) MI
GEOLOGICAL ENGINEERING (BS, MS, PhD, DE) MI
  Engineering Geology and Geotechnics (BS)
  Environ Protect & Haz Waste Mgt (BS)
  Groundwater Hydro & Contaminant Transport (BS)
  Petroleum, Energy and Natural Resources (BS)
  Quarry Engineering (BS)
  Hazardous Waste Engineering & Science (MS)
GEOLOGY AND GEOPHYSICS (BS, MS, PhD)
  Exploration Geophysics (MS, PhD)
  Exploration Geophysics (MS, PhD)
  Geochronology (BS)
  Geophysics (BS)
  Geology (BS)
  Geophysics (BS)
  Groundwater & Environmental Geochemistry (BS)
  Petroleum Geology (BS)
GEOTECHNICS (ME)
HISTORY (BA) MI
  Secondary Education
INDUSTRIAL ORGANIZATIONAL PSYCHOLOGY (MS)
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
  Computational and Applied Mathematics (PhD)
  Statistics (PhD)
MECHANICAL ENGINEERING (BS, MS, 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 (BS)
  Mining Health and Safety (BS)
  Quarry Engineering (BS)
  Sustainable Development (BS)
MULTIDISCIPLINARY STUDIES (BA)
NUCLEAR ENGINEERING (BS, MS, PhD, DE) MI
PETROLEUM ENGINEERING (BS, MS, PhD, DE) MI
PHILOSOPHY (BS) 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)
SYSTEMS ENGINEERING (MS, PhD)
  Usability of Technology
TECHNICAL COMMUNICATION (BS, MS) MI

Updated 07/07/2015
### MINORS
(In addition to those designated MI on previous page)

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<tr>
<th>American Studies</th>
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<td>Art</td>
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<td>Psychometrics</td>
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<td>Studio Art</td>
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<td>Enterprise Resource Planning</td>
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* Indicates undergraduate & graduate level minor

Updated 05/12/2015

### UNDERGRADUATE CERTIFICATES

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<th>Certificate</th>
<th>Discipline</th>
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<tr>
<td>Explosives Engineering</td>
<td>Mining &amp; Nuclear Engineering</td>
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<td>Technical Writing</td>
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Updated 10/25/2012

### GRADUATE CERTIFICATES

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<td>Actuarial Science</td>
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<td>Big Data Management and Analytics</td>
<td>Computer Science</td>
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<td>Big Data Management and Security</td>
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<td>Business Analytics and Data Science</td>
<td>Information Science &amp; Technology</td>
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<tr>
<td>Business Essentials</td>
<td>Business Administration</td>
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<td>Business Intelligence</td>
<td>Information Science &amp; Technology</td>
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<td>CAD/CAM and Rapid Product Realization</td>
<td>Manufacturing Engineering</td>
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<td>Composite Materials and Structures</td>
<td>Aerospace Engineering/Mechanical Engineering</td>
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<td>Computational Intelligence</td>
<td>Systems Engineering/Computer Engineering/Computer Science</td>
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<td>Contemporary Structural Engineering</td>
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<td>Control Systems</td>
<td>Mechanical Engineering</td>
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<td>Digital Media</td>
<td>Information Science &amp; Technology</td>
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<tr>
<td>Human Computer Interaction</td>
<td>Engineering Management/Information Science &amp; Technology</td>
</tr>
<tr>
<td>Human Systems Integration</td>
<td>Computer Engineering/Information Science &amp; Technology</td>
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<td>Information Assurance &amp; Security Officer Essentials</td>
<td>Computer Science</td>
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<td>Information Systems and Cloud Computing</td>
<td>Civil Engineering</td>
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<td>Infrastructure Renewal</td>
<td>Engineering Management/Engineering/Information Science &amp; Technology</td>
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<td>Leadership in Engineering Organizations</td>
<td>Engineering Management</td>
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<td>Lean Six Sigma</td>
<td>Engineering Management/Psychology</td>
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<td>Management and Leadership</td>
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<td>Management for Sustainable Business</td>
<td>Business Administration</td>
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<td>Manufacturing Automation</td>
<td>Business Administration</td>
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<td>Manufacturing Systems</td>
<td>Mechanical Engineering</td>
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<td>Military Construction Management</td>
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<td>Military Geological Engineering</td>
<td>Civil Engineering/Engineering Management</td>
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<tr>
<td>Multiculturalism &amp; Diversity</td>
<td>Geological Engineering</td>
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Mining Engineering
Mobile Business and Technology
Model Based Systems Engineering
Network Centric Systems
Project Engineering and Construction Management
Project Management
Psychology of Leadership
Psychometrics
Safety Engineering
Software Design and Development
Statistics
Systems Engineering
Systems and Software Architecture
Technical Communication
Wireless Networks and Mobile Systems

Mining Engineering
Information Science & Technology
Systems Engineering
Computer Engineering/Systems Engineering
Civil Engineering/Engineering Management
Engineering Management/Information Science & Technology
Information Science & Technology/Psychology
Mathematics/Psychology
Chemical and Biochemical Engineering/Engineering Management
Computer Science
Mathematics and Statistics
Systems Engineering
Computer Science
Technical Communication
Computer Science

Updated 08/14/2014

TEACHER CERTIFICATION PROGRAMS

Secondary Education Certification
- Applied Mathematics BS
- Biological Sciences BA
- Chemistry BA
- Economics BA
- English BA
- History BA
- Physics BS
- Psychology BA, BS

Elementary Education Certification
- Multidisciplinary Studies BA

Updated 02/04/2015