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 03/09/2018

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
Enterprise Resource Planning
Finance
Human Computer Interaction
Management Information Systems
Marketing
CERAMIC ENGINEERING (BS, MS, PhD)
Biomaterials (MS)
CHEMICAL ENGINEERING (BS, MS, PhD, DE)
Biochemical Engineering (BS)
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
Computer Architecture and Embedded Systems
Integrated Circuits and Logic Design
Networking, Security, and Dependability
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
EXPLOSIVES TECHNOLOGY (MS)
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 Geochemistry (MS, PhD)
Exploration Geophysics (MS, PhD)
Geophysics (BS)
Geology (BS)
Geophysics (BS)
Groundwater & Environmental Geochemistry (BS)
Petroleum Geology (BS)
GEOTECHNICS (ME)
HISTORY (BA, BS) MI
Secondary Education (BA)
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 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)
Usability of Technology
SYSTEMS ENGINEERING (MS, PhD)
TECHNICAL COMMUNICATION (BS, MS) MI

Updated 03/09/2018
MINORS
(In addition to those designated MI on previous page)

Adaptive Leadership
American Studies
Art
Artificial Intelligence and Machine Learning in Business
Automation Engineering
Bioinformatics
Biomedical Engineering
Business
Business Analytics & Data Science
Business Applications and Software Development
Cognitive Neuroscience
Communication Studies
Creative Writing
Cybersecurity Management and Information Assurance
Digital Supply Chain Management
Electronic and Social Commerce
Energy Technology
Enterprise Resource Planning
Entrepreneurship
Ethics
Explosives Engineering *
Film and Literature

Finance
Financial Technology
Geology
German
Global Studies
Global Sustainable Economics
Human-Computer Interaction & User Experience
Humanitarian Engineering and Science
Ind/Organizational Psych
International Economics
Latin American Studies for Technical Applications
Leadership Communication
Literature
Literature and Film
Management
Marketing
Military Aerospace Studies
Mineral Process Engineering
Mobile Business and Technology

Multiculturalism & Diversity
Music
Philosophy of Technology
Political Science
Pre-Law
Pre-MBA
Pre-Medicine
Psychology for Health Care
Psychology of Leadership
Psychometrics
Russian
Science, Technology & Humanity
Sociology
Spanish
Studio Art
Sustainability
Technical Communication *
Theatre
Writing

* Indicates undergraduate & graduate level minor
Updated 03/09/2018

UNDERGRADUATE CERTIFICATES

Certificate
Explosives Engineering
Explosives Technology
Technical Writing

Discipline
Mining & Nuclear Engineering
Mining & Nuclear Engineering
Technical Communication

Updated 10/25/2012

GRADUATE CERTIFICATES

Certificates
Actuarial Science
Advanced Control Systems
AI, Machine Learning and Automation in Business
Applied Workplace Psychology
Automation Engineering and PLC
Big Data Management and Analytics
Big Data Management and Security
Business Analytics and Data Science
Business Essentials
Business Intelligence
Business Project Management
CAD/CAM and Rapid Product Realization
Composite Materials and Structures
Computational Intelligence
Contemporary Structural Engineering
Control Systems
Cyber Security
Cybersecurity and Information Assurance Management
Digital Media and Web Design
Digital Supply Chain Management
Electric Machine and Drives
Electrical Power Systems Engineering
Electronic and Social Commerce
Energy Conversion and Transport
Engineering Management
Engineering Mechanics
Enterprise Resource Planning
Entrepreneurship and Technological Innovation
Explosives Engineering
Explosives Technology
Financial Engineering
Financial Mathematics
Geoenvironmental Engineering
Geotechnical Earthquake Engineering
Geotechnics

Discipline
Mathematics
Electrical Engineering
Information Science and Technology
Psychological Science
Electrical Engineering
Computer Science
Computer Science
Information Science & Technology
Business Administration
Information Science & Technology
Business Administration
Manufacturing Engineering
Aerospace Engineering/Mechanical Engineering
Systems Engineering/Computer Engineering/Computer Science
Civil Engineering
Mechanical Engineering
Computer Science
Information Science and Technology
Information Science & Technology
Electrical Engineering
Electrical Engineering
Information Science & Technology
Aerospace Engineering/Mechanical Engineering
Aerospace Engineering/Mechanical Engineering
Information Science & Technology
Business Administration
Explosives Engineering
Explosives Engineering
Engineering Management/Systems Engineering
Mathematics
Civil Engineering
Civil Engineering
Geotechnics
Human-Computer Interaction and User Experience
Human Systems Integration
Information Assurance & Security Officer Essentials
Information System Project Management
Information Systems and Cloud Computing
Infrastructure Renewal
Lean Six Sigma
Management and Leadership
Management for Sustainable Business
Manufacturing Automation
Manufacturing Systems
Military Construction Management
Military Geological Engineering
Mining Engineering
Mobile Business and Technology
Model Based Systems Engineering
Network Centric Systems
Project Engineering and Construction Management
Project Management
Safety Engineering
Software Design and Development
Statistical Methods in Psychology
Statistics
Systems Engineering
Systems and Software Architecture
Technical Communication
Wireless Networks and Mobile Systems

Information Science & Technology
Engineering Management/Information Science & Technology
Computer Engineering/Computer Science
Information Science & Technology
Computer Science
Civil Engineering
Engineering Management
Business Administration
Economics
Mechanical Engineering
Manufacturing Engineering
Engineering Management
Geological Engineering
Mining Engineering
Information Science & Technology
Systems Engineering
Computer Engineering/Systems Engineering
Civil Engineering/Engineering Management
Engineering Management
Chemical and Biochemical Engineering/Engineering Management
Computer Science
Mathematics and Statistics/Psychological Science
Mathematics and Statistics
Systems Engineering
Computer Science
Technical Communication
Computer Science

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

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