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.)

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)
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 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
  Critical Infrastructure Protection (MS)
  Software Engineering (MS)
ECONOMICS (BA, BS) MI
  Economics/Business (BS)
  Secondary Education (BA)
ELECTRICAL ENGINEERING (BS, MS, PhD, DE)
  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)
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)
  Exploration Geochemistry (MS, PhD)
  Exploration Geophysics (MS, PhD)
  Geochimistry (BS)
  Geology (BS)
  Geophysics (BS)
  Groundwater & Environmental Geochemistry (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 (BS, MS, PhD)
MATHEMATICS (MST, PhD) MI
  Computational and Applied Mathematics (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) MI
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*

Updated 07/24/2012
American Studies  German  Pre-Law
Art  Global Studies  Pre-MBA
Bioinformatics  Ind/Organizational Psych  Psychology of Leadership
Business  International Economics  Psychometrics
Creative Writing  Leadership Communication  Russian
Cognitive Neuroscience  Literature  Science, Technology & Politics
Communication Studies  Literature and Film  Sociology
Energy Technology  Marketing  Spanish
Enterprise Resource Planning  Materials  Studio Art
Ethics  Military Science  Sustainability
Explosives Engineering  Mineral Process Engineering  Sustainable Business
Film and Literature  Multiculturalism & Diversity  Technical Communication*
Finance  Music  Theatre
French  Philosophy of Technology  Writing
Geology  Political Science

UNDERGRADUATE CERTIFICATES  Updated 08/04/11

Certificate  Discipline
Explosives Engineering  Mining Engineering
Design  Interdisciplinary Engineering
Technical Communication  Technical Communication

GRADUATE CERTIFICATES  Updated 07/10/2012

Certificates  Discipline
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
Computational Intelligence  Systems Engineering/Computer Engineering/Computer Science
Contemporary Structural Engineering  Civil Engineering
Control Systems  Mechanical Engineering
Electric Machine and Drives  Electrical Engineering
Electrical Power Systems Engineering  Electrical Engineering
Energy Conversion and Transport  Aerospace Engineering/Mechanical Engineering
Engineering Management  Engineering Management
Engineering Mechanics  Mechanical Engineering
Enterprise Resource Planning  Information Science & Technology
Explosives Engineering  Mining Engineering
Financial Engineering  Engineering Management/Systems Engineering
Financial Mathematics  Mathematics
Geoenvironmental Engineering  Civil Engineering
Geotechnical Earthquake Engineering  Civil Engineering
Geotechnics  Geological Engineering
Human Computer Interaction  Information Science & Technology
Human Systems Integration  Engineering Management/Information Science and Technology
Information Assurance and Security  Computer Engineering/Computer Science
Infrastructure Renewal  Civil Engineering
Leadership in Engineering Organizations  Engineering Management/Psychology
Lean Six Sigma  Engineering Management
Management for Sustainable Business  Business Administration
Manufacturing Automation  Mechanical Engineering
Manufacturing Systems  Manufacturing Engineering
Military Construction Management  Civil Engineering/Engineering Management
Military Geological Engineering  Geological Engineering
Mining Engineering  Mining Engineering
Multimedia and Information Systems  Computer Science
Network Centric Systems  Computer Engineering/Systems Engineering
Project Engineering and Construction Management  Civil Engineering/Engineering Management
Project Management  Engineering Management/Information Science and Technology
Psychology of Leadership  Information Science and Technology/Psychology
Psychometrics  Mathematics/Psychology
Quality Engineering  Engineering Management
Safety Engineering  Chemical and Biochemical Engineering/Engineering Management
Software Design and Development  Computer Science
Statistics  Mathematics and Statistics
Systems Engineering  Systems Engineering
Systems and Software Architecture  Computer Science
Technical Communication  Technical Communication
Wireless Networks and Mobile Systems  Computer Science

* Indicates undergraduate & graduate level minor