Degree Programs, Emphasis Areas and Minors
University of Missouri-Rolla
(Degree programs are listed 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
Statistics
ARCHITECTURAL ENGINEERING (BS)
Structural Engineering
Construction Eng & Project Mgt
Environmental Systems for Buildings
Construction Materials

BIOLOGICAL SCIENCES (BA, BS) MI
Pre-Medicine (BA)

BIOMATERIALS (MS)

BUSINESS AND MANAGEMENT SYSTEMS (BS) MI
Business Administration
Management Information Systems
CERAMIC ENGINEERING (BS,MS,PhD,DE)
Biomaterials (MS)
CHEMICAL ENGINEERING (BS,MS,PhD,DE)
Biochemical Engineering (BS)
CHEMISTRY (BA, BS, BS non-ACS Certified, MS, MST, PhD) MI
Biochemistry(BS)
Polymer & Coatings Science(BS)
Pre-Medicine(BS)

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)
COMPUTER SCIENCE (BS,MS,PhD) MI
Computer Organization (MS)
Computer Systems and Language (MS)
Information Systems (MS)
Numerical Analysis (MS)
Operations Research (MS)

EARTH SCIENCES (MST)

ECONOMICS (BA, BS) MI
Economics/Business (BS)

ELECTRICAL ENGINEERING (BS,MS,PhD,DE)
Circuits
Communications-Signal Processing
Computer Engineering
Control
Electromagnetics
Electronics
Power
Solar Energy (MS)

ENGINEERING MANAGEMENT (BS,MS,PhD)
Industrial Engineering (BS)
Management of Technology (BS)
Manufacturing Engineering (BS)
Packaging Engineering (BS)
Public Works (MS)
Quality Engineering (BS)

ENGLISH (BA)

ENVIRONMENTAL ENGINEERING (BS,MS,PhD,DE)
GEOLOGICAL ENGINEERING (BS,MS,PhD,DE) MI
Engineering Geology and Geotechnics (BS)
Environ Protect & Haz Waste Mgt (BS)
Groundwater Hydro & Cont Transport (BS)
Petroleum, Energy and Natural Resources (BS)
Quarry Engineering (BS)
Hazardous Waste Engineering & Science (MS)

GEOLGY AND GEOPHYSICS (BS,MS,PhD)
Exploration Geochemistry (MS,PhD)
Exploration Geophysics (MS,PhD)
Geochemistry (BS)
Geology (BS)
Geophysics (BS)
Groundwater & Environmental Geochemistry(BS)
Petroleum Geology (BS)

GEOTECHNICS (ME)

HISTORY (BA) MI

INFORMATION SCIENCE & TECHNOLOGY (BS, MS) MI
Human Computer Interaction (BS)
INTERDISCIPLINARY ENGINEERING (BS)
MANUFACTURING ENGINEERING (MS, ME)
MATERIALS ENGINEERING (ME)
MATHEMATICS (MST, PhD) MI
Analyses (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)
Minning Health and Safety (BS)
Quarry Engineering (BS)
Sustainable Development (BS)

NUCLEAR ENGINEERING (BS,MS,PhD,DE) MI
PETROLEUM ENGINEERING (BS,MS,PhD,DE) MI
Reservoir Characterization
Energy Industry Management
Information Technology

PHILOSOPHY (BA) MI

PHYSICS (BS,MS,MST,PhD) MI
Applied Physics (BS)
Geophysics (BS)

PSYCHOLOGY (BA,BS) MI
Human Resources/Personnel
Human Services
Research Psychology
Sports Psychology
Usability of Technology

SYSTEMS ENGINEERING (MS)

TEACHER EDUCATION PROGRAM
(Secondary Teacher Certification)

MINORS (in addition to those designated MI above)
Accounting and Finance
American Studies
Art
Bioinformatics
Business Economics
Communication Studies
Energy Technology
Film and Literature
Financial Economics
French
Geology
German
German Studies
Industrial/Organizational Psychology
International Economics
Leadership Communication
Literature

Approved by CBHE as of 10/14/2004
http://campus.umr.edu/registrar/pdf/degprogs