

# **Missouri University of Science and Technology**

## **Graduate Catalog**

### **2012-2014**

Missouri S&T publishes two catalogs - undergraduate and graduate. Both are official publications of Missouri S&T and may be requested from the Office of Admission or Office of the Registrar.

All statements in the publication are announcements of present policies only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

Missouri S&T is an equal opportunity/affirmative action institution.

# Statement of Affirmative Action

It is the policy of the Missouri University of Science and Technology to provide full and equal employment opportunities to all persons without regard to race, color, religion, sex, sexual orientation, national origin, age, disability, and veteran status; to prohibit discrimination in recruitment, employment or conditions of employment, including salary and benefits related thereto; to promote employment opportunity and to take affirmative action in this regard.

## **Title VI of the Civil Rights Act of 1964**

"No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance."

## **Title IX of the Education Amendments of 1972**

"No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance."

## **Section 504 of the Rehabilitation Act of 1973**

"No otherwise qualified handicapped individual in the United States...shall, solely by reason of the handicap, be excluded from the participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving Federal financial assistance."

## **Section 303 of the Age Discrimination Act of 1975**

"No person in the United States shall, on the basis of age, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance."

## **The Americans with Disabilities Act of 1990**

### **Section 102 Discrimination**

General Rule. – No covered entity shall discriminate against a qualified individual with a disability because of the disability of such individual in regard to job application procedures, the hiring, advancement, or discharge of employees, employee compensation, job training, and other terms, conditions, and privileges of employment. Missouri S&T conducts its programs and activities involving admission and treatment of students, employment, teaching, research, and public service in a non-discriminatory manner as prescribed by Federal law and regulation.

Inquiries concerning the above may be addressed to:

Chancellor, Missouri University of  
Science and Technology  
Rolla, Missouri 65409-9957

Director, Office for Civil Rights  
Department of Education  
Washington, D.C. 20201

### **INFORMATION ON THE WORLD WIDE WEB**

For the most current information regarding course descriptions go to:<http://registrar.mst.edu/>  
Students are also advised to consult the websites of individual department offices.

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# Educational Goals of Missouri S&T

As Missouri's technological research university, Missouri University of Science and Technology's mission is to educate tomorrow's leaders. In a world growing increasingly dependent on science and technology, tomorrow's graduates must be prepared to be leaders in more than just their chosen professions. They must also be leaders in business, in government, in education, and in all aspects of society. Missouri S&T is dedicated to providing leadership opportunities for its students. The opportunity to receive an excellent technological education is only part of the educational experience received by students at Missouri S&T. Missouri S&T offers a full range of engineering and science degrees, coupled with business and liberal arts degrees and programs that are vital to the kind of comprehensive education that turns bright young men and women into leaders.

Missouri S&T is nationally recognized for its excellent undergraduate engineering programs, and is distinguished for producing cutting-edge research and key technologies vital to the economic success of Missouri and the nation. Missouri S&T has a distinguished faculty dedicated wholeheartedly to the teaching, research, and creative activities necessary for scholarly learning experiences and advancements to the frontiers of knowledge. Missouri S&T has excellent physical facilities, which support the best possible education in the liberal arts, engineering, science, applied science, and selected interrelated fields.

Missouri S&T's programs in science, engineering, and business, its technology transfer programs, its leadership opportunities, and its learning environment are all integral parts of the total educational package available to students who attend the Missouri University of Science and Technology.

## Mission Statement

Missouri University of Science and Technology integrates education and research to create and convey knowledge to solve problems for our state and the technological world.

(Approved January 2008 Board of Curators meeting.)

## Vision

Missouri University of Science and Technology will be recognized as one of the top five technological research universities in the nation.

**On Jan. 1, 2008, UMR became Missouri University of Science and Technology, or Missouri S&T. Our new name will not only help us gain broader national recognition, but will also give us an identity that fits our mission - to be the state's technological research university.**

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**Mariesa Crow**, *Fred W. Finley Distinguished Professorship of Electrical and Computer Engineering*  
**Nuran Ercal**, *Richard K. Vitek/FCR Endowed Chair in Biochemistry*  
**Ralph E. Flori, Jr.**, *Gulf Oil Foundation Professorship*  
**Samuel Frimpong**, *Robert H. Quenon Missouri Endowed Chair in Mining Engineering*  
**Stewart Gillies**, *Union Pacific Foundation/Rocky Mountain Energy Co. Professorship*  
**Steven L. Grant**, *Roy A. Wilkens Missouri Telecommunications Distinguished Professorship*  
**Shubhender Kapila**, *MO Soybean Res. Professorship*  
**Kamal Khayat**, *Vernon & Maralee Jones Endowed Professorship*  
**Lampo Leong**, *Maxwell Weiner Professorship in Humanities*  
**Ming Leu**, *Keith & Pat Bailey Missouri Professorship in Mechanical Engineering & Aerospace Engineering*  
**Frank Liou**, *Michael and Joyce Bytner Product Innovation and Creativity Professorship*  
**Daniel B. Oerther**, *John & Susan Mathes Endowed Chair*  
**Kent Peaslee**, *F. Kenneth Iverson Chair of Steelmaking Technologies*  
**Von L. Richards**, *Robert V. Wolf Assoc. Professor of Metals Casting in Metallurgical Engineering*  
**David J. Rogers**, *Karl F. Hasselman Missouri Chair in Geological and Petroleum Engineering*  
**Jagannathan Sarangapani**, *Rutledge-Emerson Professor in Electrical Engineering*  
**Joseph D. Smith**, *Laufer Endowed Chair in Energy*  
**Jay Switzer**, *Castleman/FCR Missouri Professorship of Discovery in Chemistry*  
**Donald Wunsch**, *Mary K. Finley Missouri Professorship in Computer Engineering*  
**Reza Zoughi**, *Schlumberger Distinguished Professor in Electrical & Computer Engineering*

### Curators' Professors

**Harlan U. Anderson** of Ceramic Engineering (Emeritus)  
**Bassem F. Armaly** of Mechanical Engineering (Emeritus)  
**S.N. Balakrishnan** of Mechanical & Aerospace Engineering  
**Richard K. Brow** of Ceramic Engineering  
**K. Chandrashekhara** of Mechanical & Aerospace Engineering  
**Franklin Yih Cheng** of Civil Engineering (Emeritus)  
**Alfred L. Crosbie** of Mechanical Engineering  
**Delbert E. Day** of Ceramic Engineering (Emeritus)  
**Lokesh Dharani** of Mechanical Engineering  
**James Drewniak** of Electrical Engineering  
**Walter Eversman** of Mechanical & Aerospace Engineering  
**Greg Hilmas** of Ceramic Engineering  
**Nicholas Leventis** of Chemistry (Emeritus)  
**Don H. Madison** of Physics  
**Rajiv S. Mishra** of Materials Science and Engineering  
**Michael Schulz** of Physics  
**James O. Stoffer** of Chemistry (Emeritus)  
**David A. Summers** of Mining Engineering (Emeritus)

### Curators' Teaching Professorship

**James J. Bogan** of Arts, Languages and Philosophy (Emeritus)  
**James S. Drallmeier** of Mechanical Engineering  
**Larry Gragg** of History & Political Science  
**Frances Dee Haemmerlie Montgomery** of Psychology  
**Leonard F. Koederitz** of Geological & Petroleum Engineering (Emeritus)  
**Roger A. LaBoube** of Civil Engineering (Emeritus)  
**Yinfa Ma** of Chemistry  
**Kent D. Peaslee** Materials Science & Engineering  
**O. Allan Pringle** of Physics  
**David C. Van Aken** of Materials Science and Engineering

## About the Campus

Founded in 1870 as one of the first technological schools west of the Mississippi, Missouri University of Science and Technology is one of the nation's top technological research universities. One of the four campuses in the University of Missouri System, the university was first known as the University of Missouri School of Mines and Metallurgy. It was later named the University of Missouri-Rolla in 196 and Missouri S&T in 2008.

The 284-acre campus is located in Rolla, MO, a town of nearly 20,000 in the heart of the Ozarks. The university offers bachelor of arts and bachelor of science degrees in 30 fields of study, including engineering, science, humanities, business and social sciences. Master of science degrees are offered in 27 disciplines, the doctor of philosophy in 20 and the doctor of engineering in eight.

The Missouri S&T campus is home to 50 research and academic support centers. Externally sponsored program expenditures have increased about 150 percent since FY2001, from \$17.23 million to \$38.08 million in FY2009. In FY2010, Missouri S&T received a record \$52.3 million in new grant and contract awards. Missouri S&T will enhance

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its research activity and performance to be recognized as a top-five technological research university, distinguishing itself by interdisciplinary collaborations of national significance.

Missouri S&T enrolls more than 7,600 students from 50 states and 50-plus countries. More than 70 percent of students study in engineering, science or computer fields, but Missouri S&T also offers liberal arts, humanities, social science, and business degrees, as well as certification in select education fields. More than 700 different employers, many of the nation's top companies, recruited S&T graduates in 2010-11. S&T graduates also get great jobs at great salaries-nearly \$60,000 on average for those earning undergraduate degrees.

### Campus Life

Missouri S&T offers a number of campus living options, including fraternity and sorority houses, traditional residence halls and the new Residential College. The university has more than 200 student organizations, including a dozen student design teams, a competitive NCAA Division II athletic program, student professional societies, a student radio station, and theatre and music programs. Each year, Missouri S&T students help to organize one of the largest St. Pat's celebrations in the nation.

### University of Missouri Structure and History

The four University of Missouri campuses are located in Rolla, Columbia, Kansas City and St. Louis. Governing these campuses is the Board of Curators whose members are appointed by the Governor of Missouri and confirmed by the Missouri Senate. The president of the university directs and coordinates programs of all four campuses with assistance from staff in finance, business management, academic affairs, research, extension, development, public information, and other university services. The activities of each campus are under the supervision of a chancellor, who directs campus affairs within policies established by the UM Board of Curators and the president.

The University of Missouri has a long and proud history. It was established at Columbia in 1839, only 18 years after Missouri became a state. A land-grant university, UM is recognized as the first state university west of the Mississippi River. The university remained a single campus institution until 1870 when the University of Missouri School of Mines and Metallurgy (now Missouri S&T) was established at Rolla. Campuses at St. Louis and Kansas City were added in 1963.

On July 1, 1964, the UM Board of Curators took action to rename the University of Missouri School of Mines and Metallurgy to the University of Missouri-Rolla. The campus became Missouri University of Science and Technology on Jan. 1, 2008.

### Accreditation

The University has been accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools, <http://www.ncahigherlearningcommission.org>, 30 North LaSalle Street, Suite 2400, Chicago, Illinois, 606025-2504. (312)263-0456 Further information on specialized accreditation by department is available in the Missouri S&T Fact Book or at: <http://ira.mst.edu/accreditation.html>.

### Student Consumer Information

Various state and federal laws, specifically the Higher Education Opportunity Act, require Missouri University of Science and Technology to provide information and notice to students on a variety of topics. In addition, Missouri S&T occasionally develops statements or policies on important matters and distributes them to all students. For a listing of official notifications that are currently provided to students visit the web at:

[http://registrar.mst.edu/student\\_consumer\\_info.html](http://registrar.mst.edu/student_consumer_info.html).

It is a student's responsibility to know and follow current requirements and procedures at the departmental and University levels, including those described in the University's Student Academic Regulations, Student Handbook, Undergraduate and Graduate Catalogs, Residential Housing Terms and Conditions and the Collected Rules and Regulations of the University of Missouri.

### For More Information

If you have additional questions, contact the Director of Admissions, Missouri University of Science and Technology, Rolla, MO 65409-1060, or call (800) 522-0938 or visit <http://admissions.mst.edu>. You also may wish to contact one of the following offices for specific information:

- Career Opportunities Center (573) 341-4343
- Counseling & Disability Support Services (573) 341-4211
- Disability Support Services (573) 341-4222
- Distance & Continuing Education (573) 341-6576
- Extended Learning (573) 341-4132
- Intercollegiate Athletics (573) 341-4175
- International Affairs (573) 341-4208
- Registrar (573) 341-4181
- Residential Life & Student Support (573) 341-4218
- Student Diversity Programs (573) 341-4212
- Student Financial Aid (573) 341-4282
- Student Health Services (573) 341-4284
- University Police (573) 341-4300
- Vice Chancellor Student Affairs (573) 341-4292
- Women in Engineering & Science Programs (573) 341-4212

# Calendar

## Fall Semester 2012

International Student Orientation	August 7
Freshman Orientation Begins	August 12
Transfer Student Orientation	August 16
Open Registration Ends	August 19
Classes Begin 8:00 a.m.	August 20
Labor Day Holiday	September 3
Mid-Semester	October 13
Thanksgiving Vacation Begins 8:00 a.m.	November 18
Thanksgiving Vacation Ends 8:00 a.m.	November 26
Last Class Day	December 7
Final Exams Begin 8:00 a.m.	December 10
Final Exams End 6:00 p.m.	December 14
Semester Closes 6:00 p.m.	December 14
December Commencement	December 15

## Spring Semester 2013

International Student Orientation	January 14
Open Registration Ends	January 20
Martin Luther King, Jr. Recognition Holiday	January 21
Classes Begin 8:00 a.m.	January 22
Spring Recess Begins 8:00 a.m.	March 14
Mid-Semester	March 16
Spring Recess Ends 8:00 a.m.	March 18
Spring Break Begins 8:00 a.m.	March 24
Spring Break Ends 8:00 a.m.	April 1
Last Class Day	May 10
Final Exams Begins 8:00 a.m.	May 13
Final Exams End 6:00 p.m.	May 17
Semester Closes 6:00 p.m.	May 17
May Commencement - Graduate Ceremony.	May 17
May Commencement - Undergraduate Ceremony	May 18

## Summer Session 2013

Open Registration Ends	June 2
Classes Begin 8:00 a.m.	June 3
Independence Day Holiday	July 4
Final Exams Begin 8:00 a.m.	July 25
Final Exams End 12:30 p.m.	July 26
Semester Closes 12:30 p.m.	July 26



# Calendar

## Fall Semester 2013

International Student Orientation	August 6
Freshman Orientation Begins	August 11
Transfer Student Orientation	August 15
Open Registration Ends	August 18
Classes Begin 8:00 a.m.	August 19
Labor Day Holiday	September 2
Mid-Semester	October 12
Thanksgiving Vacation Begins 8:00 a.m.	November 24
Thanksgiving Vacation Ends 8:00 a.m.	December 2
Last Class Day	December 6
Final Exams Begin 8:00 a.m.	December 9
Final Exams End 6:00 p.m.	December 13
Semester Closes 6:00 p.m.	December 13
December Commencement	December 14

## Spring Semester 2014

International Student Orientation	January 13
Open Registration Ends	January 19
Martin Luther King, Jr. Recognition Holiday	January 20
Classes Begin 8:00 a.m.	January 21
Spring Recess Begins 8:00 a.m.	March 13
Mid-Semester	March 15
Spring Recess Ends 8:00 a.m.	March 17
Spring Break Begins 8:00 a.m.	March 23
Spring Break Ends 8:00 a.m.	March 31
Last Class Day	May 9
Final Exams Begins 8:00 a.m.	May 12
Final Exams End 6:00 p.m.	May 16
Semester Closes 6:00 p.m.	May 16
May Commencement - Graduate Ceremony.	May 16
May Commencement - Undergraduate Ceremony	May 17

## Summer Session 2014

Open Registration Ends	June 1
Classes Begin 8:00 a.m.	June 2
Independence Day Holiday	July 4
Final Exams Begin 8:00 a.m.	July 24
Final Exams End 12:30 p.m.	July 25
Semester Closes 12:30 p.m.	July 25

## Graduate Degree Programs

The Missouri University of Science and Technology offers master of engineering, master of science, master of arts (available as a cooperative degree program with UMSL), master of science for teachers, master of business administration, doctor of philosophy, and doctor of engineering degrees. Studies fall into the general areas of business, economics, engineering, English, science and technology.

### Master of engineering degree

- geotechnics
- manufacturing engineering
- mining engineering

### Master of science degree

- aerospace engineering
- biology, applied and environmental
- ceramic engineering
- chemical engineering
- chemistry
- civil engineering
- computer engineering
- computer science
- electrical engineering
- engineering management
- environmental engineering
- explosives engineering
- geological engineering
- geology and geophysics
- information science & technology
- manufacturing engineering
- materials science and engineering
- mathematics (applied)
- mechanical engineering
- metallurgical engineering
- mining engineering
- nuclear engineering
- petroleum engineering
- physics
- systems engineering
- technical communication

### Master of science for teachers degree

- chemistry
- mathematics
- physics

### Master of arts degree

Available as a cooperative degree program with the corresponding departments of the University of Missouri-St. Louis. (A maximum of 12 graduate semester hours may be taken at Missouri S&T)

- economics
- English

### Master of business administration

- business administration

### Doctor of philosophy degree

- aerospace engineering
- ceramic engineering
- chemical engineering
- chemistry
- civil engineering
- computer engineering
- computer science
- electrical engineering
- engineering management
- geological engineering
- geology and geophysics
- materials science and engineering
- mathematics
- mechanical engineering
- metallurgical engineering
- mining engineering
- nuclear engineering
- petroleum engineering
- physics
- systems engineering

### Doctor of engineering degree

- chemical engineering
- civil engineering
- electrical engineering
- geological engineering
- mechanical engineering
- mining engineering
- nuclear engineering
- petroleum engineering

### Graduate minors

- explosives engineering
- technical communication

# Graduate Certificates

## Graduate Certificates

- Actuarial Science
- Business Essentials
- Business Intelligence
- CAD/CAM and Rapid Product Realization
- Composite Materials and Structures
- Computational Intelligence
- Contemporary Structural Engineering
- Control Systems
- Electric Machine and Drives
- Electrical Power Systems Engineering
- Energy Conversion and Transport
- Engineering Management
- Engineering Mechanics
- Enterprise Resource Planning
- Explosives Engineering
- Financial Engineering
- Financial Mathematics
- Geoenvironmental Engineering
- Geotechnical Earthquake Engineering
- Geotechnics
- Human Computer Interaction
- Human Systems Integration
- Information Assurance and Security
- Infrastructure Renewal
- Leadership in Engineering Organizations
- Lean Six Sigma
- Management for Sustainable Business
- Manufacturing Automation
- Manufacturing Systems
- Military Construction Management
- Military Geological Engineering
- Mining Engineering
- Multimedia and Information Systems
- Network Centric Systems
- Project Engineering & Construction Mgt
- Project Management
- Psychology of Leadership
- Psychometrics
- Quality Engineering
- Safety Engineering
- Software Design and Development
- Systems Engineering
- Systems and Software Architecture
- Technical Communication
- Wireless Networks and Mobile Systems

## Discipline

Mathematics  
Business Administration  
Information Science & Technology  
Manufacturing Engineering  
Aerospace Engineering/Mechanical Engineering  
Systems Engineering/Computer Engineering/Computer Science  
Civil Engineering  
Mechanical Engineering  
Electrical Engineering  
Electrical Engineering  
Aerospace Engineering/Mechanical Engineering  
Engineering Management  
Mechanical Engineering  
Information Science & Technology  
Mining Engineering  
Engineering Management/Systems Engineering  
Mathematics  
Civil Engineering  
Civil Engineering  
Geological Engineering  
Information Science & Technology  
Engineering Management/Information Science & Technology  
Computer Engineering/Computer Science  
Civil Engineering  
Engineering Management/Psychology  
Engineering Management  
Business Administration  
Mechanical Engineering  
Manufacturing Engineering  
Civil Engineering/Engineering Management  
Geological Engineering  
Mining Engineering  
Computer Science  
Computer Engineering/Systems Engineering  
Civil Engineering/Engineering Management  
Engineering Management/Information Science & Technology  
Information Science and Technology/Psychology  
Mathematics/Psychology  
Engineering Management  
Chemical and Biochemical Engineering/Engineering Management  
Computer Science  
Systems Engineering  
Computer Science  
Technical Communication  
Computer Science

The Provost is responsible for the administration of all graduate work at Missouri S&T. In cases where your program can be demonstrably improved, the Provost can approve departures from the graduate faculty rules. Each department may have its own rules beyond the general ones listed and should be contacted if further information is desired at: <http://grad.mst.edu/>.