

Explosives Engineering Distance Education

For courses offered through distance learning, students will learn by listening to the on-line lectures and through directed self-study. The lectures can be accessed at the designated website at a time convenient to the student. Alternatively, a student may use recorded versions on a DVD or stick. The Blackboard, Inc. software package is used in course administration. Students may participate in the Explosives Engineering Certificate program without a degree. However, any student participating in online classes as part of the Explosives Engineering Minor or Master's must hold a relative engineering, science and technology or related degree as approved by program administrators. **All participants in explosives courses must submit to a background check.**

Class Size

The enrollment will generally be limited to 15 on line students per class. Registration is on a first-come, first-served basis. This limit is set to allow us to provide the best service to the enrollees. It is expected that several of the students will attend the class in person at Missouri S & T while the rest of the class will use on-line facilities.

Hardware/Software Requirements

To participate in online classes, each student needs to secure access to an Internet-connected computer. We recommend a minimum of a 0.5 mbps connection and a computer equipped with 2 GB of RAM, a 125-GB hard disk, a sound card with appropriate speakers, a graphics card, and a DVD Drive. A recent version of Microsoft Office (PowerPoint, Word and Excel) plus, Explorer, Firefox or equivalent browser is required. Many of the courses come on DVD and interface with Blackboard on campus where additional documents, homework assignments and quizzes reside. In most cases it is recommended that the DVD contents be transferred to your hard drive for faster and better operation. It is the responsibility of each student to make sure that she/he has access to a computer that is sufficiently powerful with a sufficiently fast internet connection.

Residency Requirement

This is an on-line learning program without a formal residency requirement. However, the students enrolled in courses that have a laboratory component may be required to complete a * three-day to one-week laboratory session at Missouri S & T, at a time agreed to with the course instructor. S&T PhD residency requirements for off campus students have been redefined for compatibility with distance education and these new rules will be effective fall semester 2015.

Current Courses

A list of distance courses follows:

Exp Eng 5514/360	Fireworks Manufacturing * (new FS 2014)
Exp Eng 5612/307	Principles of Explosives Engineering
Exp Eng 5622/350	Blasting Design & Technology
Exp Eng 5713/351	Demolition of Buildings & Structures (distance since SP 2012)
Exp Eng 6001/401	Advanced Vibration Analysis (new SP 2014)
Exp Eng 6080/498	Industry Project
Exp Eng 6112/408	Regulatory Issues in the Explosives Industry
Exp Eng 6212/407	Theory of High Explosives
Exp Eng 6412/402	Environmental Controls for Blasting
Min Eng 5922/383	Tunneling & Underground Construction

Classes are being added in order to provide students flexibility and variety while pursuing advanced degrees. Course descriptions can be found at [Current Courses](#) through the Missouri S&T Explosives Engineering website, explosives.mst.edu

International Students

International students for whom English is not the native language must submit a TOEFL score of at least 550 or satisfactorily complete an English Language course approved by the Program Coordinator. A GRE score is

required of all international students. (Due to US law prohibiting foreigners from possessing (including handling) explosives the on-site attendance of classes is discouraged for foreign students.

If an applicant's educational and/or industrial background appears to be lacking, the applicant may be accepted provided he or she agrees to take selected background courses selected to ensure his/her success. Depending on the student's background, up to four fundamental mining courses may be required.

Enrollment

An application for enrollment can be submitted by completing the registration forms which can be found at: <http://dce.mst.edu/admissions/index.html>. The completed application form must be faxed to the Mining Engineering Department at (573) 341-6934.

Fees

Current tuition fees for this program may be found at the following web site:

http://dce.mst.edu/admissions/fee_schedule.html

The fees entitle the student to participate in all activities related to the course(s) in which he/she is enrolled.

Additional information can be obtained from: **Ms. Shirley Hall**

hallsi@mst.edu

573-341-6303

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