

## Civil Engineering M.S.



### Contact Information

#### **Dr. Henry V. Mott**

Department of Civil and Environmental  
Engineering, Civil/Mechanical 118  
(605) 394-5170  
E-mail: [Henry.Mott@sdsmt.edu](mailto:Henry.Mott@sdsmt.edu)

### Faculty

Professors Bang, Hansen, Fontaine, Kenner and Mott; Associate Professors Fazio, Stone, and Surovek; Assistant Professors Arneson-Meyer, Fick, Roberts and Robinson; Professor Emeritus Ramakrishnan; Associate Professor Emeritus Klasi.

### Civil Engineering

The Department of Civil and Environmental Engineering offers graduate study programs leading to the master of science degree in civil engineering in the following specialties: advanced materials, environmental, geotechnical, water resources, and structural engineering. Any one of the above subject areas may be chosen as an area of emphasis. Additional courses can be completed from any one of the above subject areas.

Emphasis within the department is on the professional development of the student and mastery of the technical and applied aspects of his or her specialty. Both thesis and non-thesis options are available to candidates for the master of science degree in civil engineering.

Completion of a minimum of 30 credit hours are required for the thesis option of which six (6) credit hours of graduate research (CEE 798) and 24 credits of course work are required.

Independent study (CEE 691) and non-thesis research (CEE 788) are not applicable toward the thesis option. The non-thesis option requires completion of 32 credit hours of which 5 credits can be a combination of non-thesis research (CEE 788) and Independent study (CEE 691).

Modeling and computation in civil engineering (CEE 784) is required of all MSCE students.

Other specific course requirements may be applicable depending upon the student's area of specialization. Students who elect to specialize in either environmental or water resources engineering must complete CEE 521 and CEE 733. Students who specialize in Geotechnical Engineering must complete CEE 643 and CEE 647. All rules and regulations of the graduate office, included elsewhere, apply to candidates for the degree of master of science in civil engineering.

The Department of Civil and Environmental Engineering has well equipped laboratories in concrete and advanced composite materials preparation, materials testing, bench and pilot-scale bridge testing, hydraulic engineering, soil mechanics, and water and wastewater analysis. These laboratories are available for student thesis research. Students will make considerable use of various computer labs for their course work and research. A number of campus computer labs are open to all students and the CEE department supports several labs dedicated computers for use by CEE students.

## **Graduate Studies in Computer Engineering**



### **Contact Information**

#### **Dr. Mike Batchelder**

Department of Electrical and Computer  
Engineering

Electrical Engineering/Physics 311

(605) 394-2451

E-mail: [michael.batchelder@sdsmt.edu](mailto:michael.batchelder@sdsmt.edu)

### **Computer Engineering**

Students interested in pursuing graduate studies in communications and applied electromagnetics; digital computers, embedded systems and VLSI, and power and control systems, please see electrical engineering.

Students interested in pursuing graduate studies in robotics please see Robotics and Intelligent Autonomous Systems p. 238.