Minor in Geospatial Technology
Effective Fall 2013

Geospatial Technology is a rapidly expanding field that covers the management and analysis of spatial data from many sources, such as satellites, airborne remote sensing, geographic information systems (GIS), global positioning systems (GPS), surveying, and more. It has many applications in the sciences, engineering, business, planning, and transportation.

Science and engineering majors may pursue a Minor in Geospatial Technology by completing eighteen (18) credit hours of courses, including

- GEOL 416/416L/516/516L
- GEOL 417/517
- GEOL 419/519
- GEOL 420/520

Six additional credits taken from any of the groups below complete the minor. Up to three credits of a senior capstone, research, or design project with a significant proportion of geospatial content may be substituted for one elective, with permission of the program director, Dr. Maribeth Price. E-mail: Maribeth.Price@sdsmt.edu

One of these surveying courses may be applied to the minor:

- CEE 206/206L Engineering Surveys I/Lab Credits: (2-1) 3
- MEM 201L Surveying for Mineral Engineers Credits: (0-2) 2

One of these statistics courses may be applied to the minor:

- MEM 307 Mineral Exploration and Geostatistics Credits: (3-0) 3
- MATH 281 Introduction to Statistics Credits: (3-0) 3
- MATH 381 Introduction to Probability and Statistics Credits: (3-0) 3

One of these programming courses may be applied to the minor:

- GEOE 211/211L Earth Systems Engineering Analysis/Lab Credits: (1-1) 2
- CEE 284 Applied Numerical Methods Credits: (3-0) 3
- CBE 117L Programming for Chemical and Biological Engineering Credits: (0-1) 1

Any of these courses may be applied to the minor:

- CEE 437/437L/537/537L Watershed and Floodplain Modeling/Lab Credits: (2-1) 3
- CSC 111/111L Introduction to Computer Programming/Lab Credits: (1-1) 2
- CSC 150/150L Computer Science I/Lab Credits: (2-1) 3
- CSC 250 Computer Science II Credits: (4-0) 4
- CSC 464/564 Introduction to Digital Image Processing and Computer Vision Credits: (3-0) 3
- CSC 484 Database Management Systems Credits: (3-0) 3
- GEOL 376 Geospatial Field Methods Credits: (0-3) 3
- MEM 301/301L Computer Applications in Mining/Lab Credits: (1-1) 2