Environmental engineers design systems and solve pressing global problems in all areas related to the environment and public health: sustainable design of drinking water treatment and wastewater treatment, and solid hazardous waste disposal systems; development of air quality monitoring and pollution prevention programs; design of site remediation and mining reclamation programs; and development of ecosystem protection and restoration efforts, among others. Students may study environmental engineering as an emphasis area in the B.S. civil engineering degree program, and/or pursue an environmental engineering minor.

Students from any discipline at the School of Mines may pursue a minor in environmental engineering by completing 18 credit hours of coursework as described below.

Program Coordinator: Dr. James Stone  
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**REQUIRED CORE COURSES:**

- CEE 326    Environmental Engineering 1  
- CEE 327/L    Environmental Engineering 2/Lab  
- CEE 426/526    Environmental Engineering Unit Operations and Processes (drinking water treatment)  
- CEE 427/527    Environmental Engineering Biological Process Design (wastewater treatment)

In addition, students select two 3-credit elective courses from the list below. To ensure that enrollees gain the broad and interdisciplinary background expected in the environmental engineering discipline, one elective must be taken from a discipline outside the student’s major field of study.

- CBE 455/555 Pollution Phenomena & Process Design  
- CHEM 326    Organic chemistry I  
- CHEM 482/582 Environmental chemistry  
- GEOE/CEE 421/521 Aqueous geochemistry  
- GEOE 475/575/L Groundwater  
- IENG 331 Safety engineering  
- MEM 405 Mine Permitting & Reclamation  
- MET 220/L Mineral Processing & Resource Recovery  
- CBE 217 Chemical Engineering Material Balances  
- ING 431/531 Industrial Hygiene  
- AES 405/505 Air Quality  
- GEOE 221/221L Geology for Engineers/Lab  
- CEE 428/528 Oil and Gas Development and the Environment  
- BIOL 341 Microbial Processes in Eng and Nat Systems

You must fill out the Notification of Intent to Seek a Minor form, with the appropriate signatures and turn it in to the registrar’s office by the beginning of the first semester of your senior year. This is only a sample program of study. For full details please consult the catalog at catalog.sdsmt.edu and the department website.
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