CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT ENVIRONMENTAL ENGINEERING MINOR



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 and 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 pursue an environmental engineering education as an emphasis area in the BS Civil Engineering degree program (see http://cee.sdsmt.edu for details), 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 james.stone@sdsmt.edu 605-394-2443

REQUIRED CORE COURSES:

CBE 217 Material and Energy Balances
CEE 326 Environmental Engineering 1
CEE 327 Environmental Engineering 2
GEOE/CEE 421 Aqueous Geochemistry (offered odd springs)
BIOL 341 Microbial Processes in Eng. and Natural Sciences

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

CBE 455 Pollution Phenomena & Process Design
CEE 426 Environmental Engineering Physical/
Chemical Process Design
CHEM 326 Organic chemistry I

CHEM 482 Environmental chemistry

GEOE 475/575/L Groundwater
IENG 331 Safety engineering

MEM 405 Mine Permitting & Reclamation

MET 220/L Mineral Processing & Resource Recovery

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.



SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY NOTIFICATION OF INTENT TO SEEK A MINOR

DATE			-			
TO <u>Registrar ar</u>	nd Academic S	Services	_			
FROM						
ľ	NAME			STUDENT ID NUMBER		
I propose to qualify for	a minor in the	e following fiel	ld of study			
My Major is						
My anticipated date of	graduation is					
				s approved by the Major and t SDSM&T and cumulative		
The subjects that are to	be used to n	neet the requir	ements for	the designated minor a	re	
DEPT.	COURSE#			TITLE	CREDIT HOURS	
					_	
					_	
		·				
					_	
					_	
Courses approved on _		by			Major Department	
	Date		Signa	ture		
Courses approved on _		by			Minor Department	
courses approved on _	Date	-		Minor Coordinator	Willion Department	
I request that upon gra			_			
rrequest that upon gra	duation the ii	stilig of this in	inor by incid	daed off my transcript.		
				Signature		
				,		

Date