

Bachelor of Science in Environmental Engineering

A Bachelor's degree in Environmental Engineering requires **123-124** credit hours and the Environmental Engineering degree is designed for a four-year program of study. The minimum credit load for a full-time student is 12 credit hours per semester.

A student needs to complete general courses and general education electives within the first two years of study with a grade point average of 2.0 or better before taking the upper level core courses (300 and 400-level courses). **However, to complete the program within four years, a credit load of 15 to 18 per semester is recommended.** Also, this time can be reduced by attending summer sessions and/or interim sessions

Educational Requirements	Credit	Prerequisites	Semester/Year	Grade
Semester 1:				
ENGR-123 Computer Skills for Engineering	3			
ENGR-130 Engineering Graphics	3			
CS-101 Programming I	3			
ENGL-1110 Composition I	3	<i>ENGL 100 or Accuplacer</i>		
SSC 100 College Success	1			
MATH-1510 Calculus I	4	<i>MATH 1230 & MATH 1240</i>		
Semester 2:				
ENGR-103 Introduction to Engineering	3			
ENGR-169 Basic Statistics & Probability	3			
EE-101 Fundamentals of Electrical Engineering	3			
GIT-105 Fundamentals of Cartography	3			
PHYS-1310 Calculus Based Physics	4			
Semester 3:				
MATH-1520 Calculus II	4	<i>MATH-1510</i>		
CHEM-1217C Principles Chemistry I	4	<i>MATH-1220 or CHEM-1120C</i>		
ENGL 1120 Composition II or Professional and Technical Communication	3	<i>ENGL 1110</i>		
ENVE-2110 Fundamentals of Environ. Engineering	3	<i>ENGR-103</i>		
ENGR-236 Inferential Engineering Statistics	3	<i>MATH 1510 & ENGR-169</i>		
Semester 4:				
NAV-XXX or NAVA-XXXX Dine Studies Course	3-4			
CHEM-1225C General Chemistry II	4	<i>CHEM-1217C</i>		
ENVE 286 Applications of Biology to Engineering	3	<i>MATH 1220 or PHYS 1310C</i>		
MATH 2410 Differential Equations	4	<i>MATH 1520</i>		
COMM 1130 Public Speaking	3			
Semester 5:				
IE 380 Project Management	3	Junior Standing		
ENVE 355 Soil Mechanics	3			
CHEM 2130C Organic Chemistry I	4	<i>CHEM 1225C</i>		
MTH 410 Linear Algebra	3	<i>MATH 1520</i>		
ME 353 Fluid Mechanics	3	<i>PHYS 1230C & MATH 1510</i>		
Semester 6:				
HUMN 1180 History of American Indian in Media	3			
IE 323 Human Factors	3	<i>ENGR 236</i>		
GEOL 1120C Environmental Geology	4			
Fine Arts Creative Course	3			
Semester 7:				
ENVE 403 Water & Waste Treatment System Design	3	<i>CHEM 2130C</i>		
ENV 425 Advance Environmental Law	3			

ENVE 472 Hydrogeology	3			
ENVE 442 Environmental Engineering Lab	2	<i>CHEM 2130C</i>		
ENVE 455 Fate & Transport Process in Environment Engr	3	<i>GEOL 1120C & ME 353</i>		
Semester 8:				
ENVE-430 Capstone	3	<i>IE 380 & ENVE 481</i>		
ENVE-468 Air Pollution Control	3	<i>ENVE-455</i>		
ENVE-XXX Environmental Engineering Elective	3	<i>Advisor Approval</i>		
ENVE-481 Hazardous Waste Mgmt & Risk Assessment	3	<i>CHEM-2130 or GEOL-1120C</i>		
Summer Semester:				
ENVE-312 Summer Internship	3			
Total Credit Hours required for degree is:	125-126			

Electives List

ENVE 491	Environmental Organic Chemistry
ENVE 493	Clay Minerals
ENVE 495	Radioactive Waste
ENVE 497	Green Chemistry
ENVE 499	Methods of Materials Characterization

	Signatures	Date
Student:		
Advisor:		
Registrar:		
Graduation Date:		