B.S. IN ENVIRONMENTAL ENGINEERING CATALOG YEAR 2020-2021

Below is the *advised sequence* of courses for this degree program and prerequisites as of 12/18/19. The official degree requirements and prerequisites can be found in the University General Catalog and the prerequisites are subject to change.

UNITS	PREREQUISITES
5/3	Appropriate Math Placement
4	Appropriate Math Placement
3	
3	ENGR102A: MATH 112 or 120R & CHEM 151; Concurrent enrollment or completion of MATH 122B or 125
3	
3	MATH 122B or 125 with C or better
4	For CHEM 152 and MSE 110: CHEM 151 or 161/163
1	Concurrent enrollment or completion of MATH 122B or 125
3	ENGL 101 or ENGL 107
4	MATH 122B or 125 or appropriate Math Placement Level
3	MATH 122B or 125 & Completion or concurrent enrollment MATH 129, CHEM 152 or 162/164
1	AME 105, Concurrent Enrollment or completion of AME 205
1	AME 105; Concurrent Enrollment or completion of CHEE 201L
4	MATH 129 with C or better
3	CHEM 152 or 162/164
1	CHEM 152 or 162/164; Prerequisites or concurrent in CHEM 241A or 242A or 246A
3	
4	CHEE 201, 201L, Prerequisite or concurrent enrollment in MATH 254
1	CHEE 201, CHEM 241A or 242A or 246A and CHEM 243A or 247A
3	MATH 129 or 223 with C or better
4	For PHYS 241 or 261H: PHYS 141 or 161H; MATH 129 or appropriate Math Placement Level
1	PHYS 141, MATH 129
3	
	3 3 3 4 1 3 1 1 4 3 4 1 3 4 1 3 4 1 1 3

COURSE NUMBER AND TITLE	UNITS		
CURRENT PREREQUISITES FOR UPPER DIVISION COURSES CAN BE FOUND IN THE UA GENERAL CATALOG			
ADVANCED STANDING IS REQUIRED FOR 3XX AND 4XX COURSES (SEE ADVISOR FOR REQUIREMENTS)			
5 [™] SEMESTER			
Earth Science Elective	3		
CE 218 Mechanics of Fluids	3		
CHEE 377 Microbiology for Engineers	3		
CHEM 480A Physical Chemistry (Fall only)	3		
Technical Elective – See major advisor for course approval	3		
Tier II General Education	3		
6 TH SEMESTER			
CHEE 300 Intro to Water Chemistry for Engineers	3		
SIE 305 Introduction to Engineering and Probability and Statistics or MATH 363 Introduction to Statistical Methods	3		
CHEE 370R Environmental and Water Engineering	3		
Technical Elective – See major advisor for course approval	3		
Tier I General Education	3		
7 TH SEMESTER			
CHEE 400A Environmental Engineering Laboratory I	1		
ENGR 498A Cross-disciplinary Design (Fall only, must take with ENGR 498B in spring semester or CHEE 442 Chemical Engineering Design Principles (Fall only, must take CHEE 443 in spring semester)	3		
CHEE 476A Water Treatment System Design	3		
CHEE 476B Wastewater Treatment Design System	3		
Engineering Elective – See major advisor for course approval	3		
Tier II General Education	3		
8 TH SEMESTER			
CHEE 474 Fate and Transport Processes in Environmental Engineering	3		
ENGR 498B Cross-disciplinary Design (if on ENGR 498 sequence) or CHEE 443 Chemical Engineering Plant Design (if on CHEE 442/443 sequence)	3		
CHEE 400B Environmental Engineering Laboratory II	1		
ATMO 469B Air Pollution II: Aerosols	3		
CHEE 478 Introduction to Hazardous Waste Management	3		
Engineering Elective – See major advisor for course approval	3		

^{*}Tier I and II General Education Courses must meet University general education requirements. One course must be recognized by the university as meeting the Diversity Requirement.