B.S. IN ENVIRONMENTAL ENGINEERING CATALOG YEAR 2018-2019

Below is the *advised sequence* of courses for this degree program and prerequisites as of 3/07/18. The official degree requirements and prerequisites can be found in the University General Catalog and the prerequisites are subject to change.

COURSE NUMBER AND TITLE	UNITS	PREREQUISITES
1ST SEMESTER		
MATH 122A/B or MATH 125 Calculus I with Applications	5/3	Appropriate Math Placement
CHEM 151 General Chemistry I or CHEM 105A/ 106A	4	Appropriate Math Placement
ENGL 101 or 107 or 109H First-Year Composition	3	
ENGR 102A/B Introduction to Engineering or ENGR 102	3	Completion or concurrent enrollment in MATH 122B or 125
Tier I General Education	3	
2 ND SEMESTER		
MATH 129 Calculus II	3	MATH 122B or 125 with C or better
CHEM 152 General Chemistry II or CHEM 105B/106B or MSE 110	4	CHEM 151 or 105A/106A
AME 105 Introduction to MATLAB I	1	Completion or concurrent enrollment in MATH 122B or 125
AME 205 Introduction to MATLAB II or CE260 Computer Programming	1	AME 105
ENGL 102 or 108 First-Year Composition	3	ENGL 101 or ENGL 107
PHYS 141 Introductory Mechanics or PHYS 161H	4	MATH 122B or 125
Tier I General Education	3	
3RD SEMESTER		
CHEE 201 Elements of Chemical Engineering I (Fall Only)	3	MATH 122B or 125; Completion or concurrent enrollment MATH 129, CHEM 152 or 105B/106B
CHEE 201L Elements of Chemical Engineering I Computational Lab (Fall Only)	1	AME 105, Concurrent enrollment or completion of AME 205 or CE 260
MATH 223 Vector Calculus	4	MATH 129 with C or better
CHEM 241A Lectures in Organic Chemistry or CHEM 242A or CHEM 246	3	CHEM 152 or 105B/106B; For CHEM 242A/246A Honors
CHEM 243A Organic Chemistry Laboratory or CHEM 247A	1	CHEM 152 or 105B/106B; Completion or concurrent in CHEM 241A or 242A or 246A
CHEE 295E Careers in Environmental Engineering	1	
ENVS 200 Introduction to Soil Science	3	CHEM 151
4TH SEMESTER		
CHEE 202 Elements of Chemical Engineering II (Spring Only)	4	CHEE 201, 201L, Completion or current enrollment in MATH 254
CHEE 370R Environmental and Water Engineering – See advisor for registration	3	CHEE 201 and (CHEM 241A or 242A or 246A) and (CHEM 243A or 247A) or Adv. Standing Engineering
MATH 254 Intro to Ordinary Differential Equations	3	MATH 129 or 223 with C or better
PHYS 241 Introductory Electricity and Magnetism or PHYS 261H	4	For PHYS 241 or 261H: PHYS 141 or 161H; MATH 129
ENGR 211C Engineering Science Module - Statics	1	Recommended but not required, PHYS 141 and MATH 129

COURSE NUMBER AND TITLE	UNITS
CURRENT PREREQUISITES FOR UPPER DIVISION	COURSES CAN BE FOUND IN THE UA
GENERAL CATALOG	AVV COURCES (SEE ARVISOR FOR
ADVANCED STANDING IS REQUIRED FOR 3XX ANI REQUIREMENTS)	D 4XX COURSES (SEE ADVISOR FOR
5TH SEMESTER	
CHEE 400R Water Chemistry for Engineers	3
CHEE 476A Water Treatment System Design	3
CE 218 Mechanics of Fluids	3
CHEE 477R Microbiology for Engineers or BIOC 462A Biochemistry	3
SIE 305 Introduction to Engineering and Probability and Statistics or MATH 363 Introduction to Statistical Methods	3
CHEM 480A Physical Chemistry	3
6 TH SEMESTER	
CHEE 476B Wastewater Treatment Design System	3
CHEE 478 Introduction to Hazardous Waste Management	3
Technical Elective – See major advisor for course approval	3
Tier I General Education	3
Tier II General Education	3
7TH SEMESTER	
CHEE 400A Environmental Engineering Laboratory I	1
ENGR 498A Cross-disciplinary Design (Fall Only) – Senior Status	3
Technical Elective – See major advisor for course approval	3
Engineering Elective – See major advisor for course approval	3
Tier I General Education	3
Tier II General Education	3
8TH SEMESTER	
CHEE 474 Fate and Transport Processes in Environmental Engineering	3
ENGR 498B Cross-disciplinary Design (Spring Only) – Senior Status	3
CHEE 400B Environmental Engineering Lab II	1
Engineering Elective – See major advisor for course approval	3
ATMO 469B Air Pollution II: Aerosols	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.