

CHEMISTRY (B.S.) ENVIRONMENTAL SCIENCES

Curriculum Map

Course	Title	Hours
Freshman		
Fall		
BIO 111 & BIOL 111	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Option		3
Hours		16
Spring		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 241	CALCULUS I WITH LABORATORY	3
Pathway Option		3
Hours		17
Sophomore		
Fall		
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
Humanities & Fine Arts Option		3
Pathway Option		3
Hours		17
Spring		
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212 & PHYL 212	General Physics II and GENERAL PHYSICS LAB II	4
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
Hours		16
Junior		
Fall		
CHEM 320 & CHML 320	ANALYTICAL CHEMISTRY and ANALYTICAL CHEMISTRY LAB	4
CHEM 341 & CHML 341	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LAB	4
CHEM 380	INDEPENDENT STUDY	1
CHEM 381	CHEMISTRY SEMINAR	0.5
Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3
Hours		15.5
Spring		
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 380	INDEPENDENT STUDY	1

CHEM 382	CHEMISTRY SEMINAR	0.5
CHEM 429	Organic Structure Determination by Spectroscopy	3
Environmental Option and Lab		4
Social & Behavioral Science		3
Hours		13.5
Senior		
Fall		
CHEM 380	INDEPENDENT STUDY	1
CHEM 410	ENVIRONMENTAL CHEMISTRY	3
CHML 410 ENVIRONMENTAL CHEM LAB		1
CHEM 431 & CHML 431	BIOCHEMISTRY I and BIOCHEMISTRY I LAB	4
CHEM 481	CHEMISTRY SEMINAR	0.5
General Elective		3
Hours		12.5
Spring		
CHEM 421 & CHML 421	CHEMICAL INSTRUMENTATION and CHEMICAL INSTRUMENTATION LAB	4
CHEM 380	INDEPENDENT STUDY	1
CHEM 482	CHEMISTRY SEMINAR	0.5
Environmental Option and Lab		4
Toxicology Option		3
Hours		12.5
Total Hours		120

Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Standardized Tests (GRE, MCAT, MFT, PCAT, etc), Chemistry Exit Exam, Research Report, and Research Presentation are required before graduation.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Environmental Science Option Courses

Code	Title	Hours
Select two of the following with labs:		8
BIO 201	INTRO TO ENVIRONMENTAL SCIENCE	
BIOL 201	INTRO TO ENVIRONMENTAL SCI LAB	1
BIO 404	ENVIRONMENTAL SCIENCE	
BIOL 404	ENVIRONMENTAL SCIENCE LAB	1

Toxicology Option Courses

Code	Title	Hours
Select one of the following:		3
ITHM 529	ENV TOXICOLOGY & RISK ASSESSME	
CHEM 471	FORENSIC TOXICOLOGY	
Total Hours		3