CHEMISTRY (B.S.) WITHOUT CERTIFICATION

Curriculum Map

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Course	Title	Hours
Freshman		
Fall		
BIO 111	GENERAL BIOLOGY	4
& BIOL 111	and GENERAL BIOLOGY LAB	
CHEM 141	GENERAL CHEMISTRY I	4
& CHML 141	and GENERAL CHEMISTRY LAB	
ENG 104 or ENG 103	COMPOSITION I or English Composition I with Co-requisite Support	3
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 111	COLLEGE ALGEBRA	3
UNIV 100	UNIVERSITY SUCCESS	2
-	Hours	16
Spring		
CHEM 142	GENERAL CHEMISTRY II	4
& CHML 142	and GENERAL CHEMISTRY II LAB	
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
MATH 241	CALCULUS I WITH LABORATORY	3
Humanities & Fine Arts Op	otion	3
Pathway Option		3
	Hours	16
Sophomore		
Fall		
CHEM 241	ORGANIC CHEMISTRY I	4
& CHML 241	and ORGANIC CHEMISTRY I LAB	
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211	General Physics I	4
& PHYL 211	and GENERAL PHYSICS LAB I	
Humanities & Fine Arts Op	tion	3
Pathway Option		3
	Hours	17
Spring		
CHEM 242	ORGANIC CHEMISTRY II	4
& CHML 242	and ORGANIC CHEMISTRY II LAB	4
CHEM 340 & CHML 340	INORGANIC CHEMISTRY I and INORGANIC CHEMISTRY LAB	4
PHY 212	General Physics II	4
& PHYL 212	and GENERAL PHYSICS LAB II	7
UNIV 200	CIVIC ENGAGEMENT	1
Pathway Option		3
	Hours	16
Junior		
Fall		
CHEM 320	ANALYTICAL CHEMISTRY	4
& CHML 320	and ANALYTICAL CHEMISTRY LAB	
CHEM 341	PHYSICAL CHEMISTRY I	4
& CHML 341	and PHYSICAL CHEMISTRY I LAB	
CHEM 381	CHEMISTRY SEMINAR	0.5
Social & Behavioral Science	ce	3
Humanities & Fine Arts Op	otion	3
	Hours	14.5
Spring		
CHEM 310	INTRO TO SCIENTIFIC RESEARCH	2
CHEM 380	INDEPENDENT STUDY	1
CHEM 382	CHEMISTRY SEMINAR	0.5
Chemistry Math Option		3

Social & Behavioral Science Option		3
General Elective		3
General Elective		3
	Hours	15.5
Senior		
Fall		
CHEM 481	CHEMISTRY SEMINAR	0.5
Chemistry Elective		3
General Elective		3
General Elective		3
General Elective		3
	Hours	12.5
Spring		
CHEM 421	CHEMICAL INSTRUMENTATION	4
& CHML 421	and CHEMICAL INSTRUMENTATION LAB	
CHEM 429	Organic Structure Determination by Spectroscopy	3
CHEM 482	CHEMISTRY SEMINAR	0.5
Chemistry Elective		3
General Elective		3
	Hours	13.5
	Total Hours	121

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), the Chemistry Exit Exam, Research Report, and Research Presentation are required before graduation.
- Online Graduation Clearance (to be completed during the graduating semester only).

Chemistry Option Courses

Code	litle	Hours
Select must choo elective options:	se six (6) hours from the following chemistry	3
CHEM 410	ENVIRONMENTAL CHEMISTRY	3
CHEM 342	PHYSICAL CHEMISTRY II	3
CHEM 436	PHYSICAL ORGANIC CHEMISTRY	3
CHEM 439	Introduction to Polymer Chemistry	3
CHEM 441	INORGANIC CHEMISTRY II	3
CHEM 452	ATOMIC & MOLECULAR STRUCTURE	3
CHEM 458	QUANTUM MECHANICS	3
CHEM 471	FORENSIC TOXICOLOGY	3

Math Option Courses

Code	Title	Hours
Students must ch	noose six (hours) of the following math options: 1	6-8
MATH 111	COLLEGE ALGEBRA	
MATH 112	PLANE TRIGONOMETRY	
MATH 118	ALGEBRA II & TRIGONOMTRY	
MATH 243	CALCULUS III WITH LABORATORY	

Comments: If taking MATH 118, there will be one less credit hour needed for the student to graduate. If a student is qualified to take MATH 241 in the freshman year, MATH 111, 112, or 118 are not

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required, rather, the student can take MATH 242, MATH 243, or other elective $\,$