

**ACADEMIC ROADMAP
BS DEGREE IN CHEMISTRY (CHEMISTRY CONCENTRATION)**

Freshman Year

FIRST SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
FUND OF CHEM I (4)*	CHE 111/113	CHE 110 (C or better) or MAT 114 or a higher level math (C or better) or SAT math of 480 (or better) or ACT composite score of 18 (or higher)
CALCULUS I (5)*	MAT 161/163	MAT 124 with a minimum grade of C
Intellectual Foundations (IF) course(s)		
College Writing I	CWP 101	Successful completion of CWP 099 or SAT score over 400 or ACT score of 17 or higher

SECOND SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
FUND OF CHEM II (4)*	CHE 112/114	CHE 111/113
CALCULUS II (5)*	MAT 162/164	MAT 161/163
IF course(s)		
College Writing II	CWP 102	CWP 101 or its equivalent

Notes:

*a grade of "C" or better is required

Sophomore Year

THIRD SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
ORGANIC CHEMISTRY I (3)	CHE 201	CHE 112
ORGANIC CHEMISTRY I LAB (1)	CHE 203	CHE 112
UNIVERSITY PHYSICS I (5)	PHY 111	
CALCULUS III (5)	MAT 263/264	MAT 162/164
IF course(s)		

FOURTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
ORGANIC CHEMISTRY II (3)	CHE 202	CHE 201
ORGANIC CHEMISTRY LAB II (1)	CHE 204	CHE 203
UNIVERSITY PHYSICS II (5)	PHY 112	PHY 111 or equivalent
ANALYTICAL CHEMISTRY (4)	CHE 301	CHE 112/114
IF course(s)		

Notes:

Junior Year

FIFTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
PHYSICAL CHEMISTRY I** (3)	CHE 305	CHE 202, CHE 301, PHY 112 and MAT 263 (or concurrently) or instructor's permission
PHYSICAL CHEMISTRY I LAB (1)**	CHE 307	CWP 102, CHE 204, CHE 301 and CHE 305 (or concurrent registration)
LITERATURE OF CHEMISTRY (1)**	CHE 310	
INTRO TO INORGANIC CHEM (3)**	CHE 360	

SIXTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
PHYSICAL CHEMISTRY II (3)**	CHE 306	CHE 305 and MAT 263
PHYSICAL CHEMISTRY II LAB (1)**	CHE 308	CHE 305 and CHE 307 and MAT 263 and CWP/ENG 102
All-college Elective***		

Notes: **these courses are usually offered only in the semester indicated

***at least **two** all-college electives must be upper-division to satisfy college graduation requirements

Senior Year

SEVENTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
BIOCHEMISTRY I (3)**	CHE 470	CHE 202; BIO 211 recommended
BIOCHEMICAL TECHNIQUES (2)**	CHE 471	CHE 204 and CHE 301
INSTRUMENTAL ANALYSIS (4)	CHE 403	CHE 301; CHE 331 or CHE 306 (may be taken concurrently with instructor permission)

EIGHTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
ADV INORGANIC CHEMISTRY (3)**	CHE 462	CHE 202, CHE 204, CHE 305, CHE 360 and CHE 306 or concurrent
All-college Elective***		

Notes:

**these courses are usually offered only in the semester indicated

***at least **two** all-college electives must be upper-division to satisfy college graduation requirements