

Departmental Requirements: Chemistry & Biochemistry Degrees

COURSE	TITLE	SEMESTER HOURS REQUIRED		
		Chemistry		Biochemistry
		B.S.	B.A.	B.S.
CHEMISTRY COURSES REQUIRED:				
CHEM 1340/1140	GENERAL CHEMISTRY & LAB	4	4	4
CHEM 2320/2120	ANALYTICAL CHEMISTRY & LAB	4	4	4
CHEM 2323/2123	ORGANIC CHEMISTRY I & LAB	4	4	4
CHEM 3325/3125	ORGANIC CHEMISTRY II & LAB	4	4	4
CHEM 3332	SPECTROSCOPY AND CHEMICAL STRUCTURE	3	3	
CHEM 3334	STRUCTURAL INORGANIC CHEMISTRY	3	3	
CHEM 3336	QUANTUM MECHANICS AND SPECTROSCOPY	3	3	3
CHEM 3337	THERMODYNAMICS AND KINETICS	3		
CHEM 3242	CHEMICAL INSTRUMENTATION LABORATORY	2	2	2
CHEM 4242	ADVANCED SYNTHESIS AND STRUCTURE	2		
CHEM 4343	BIOCHEMISTRY I			3
CHEM 4344	BIOCHEMISTRY II			3
CHEM 4245	BIOCHEMISTRY LAB			2
CHEM 4147	RESEARCH METHODS	1	1	1
CHEM 4148	UNDERGRADUATE RESEARCH	3	2	2
CHEM 4149	SENIOR SEMINAR	1	1	1
ELECTIVE	UPPER-DIVISION CHEMISTRY COURSE ⁽¹⁾	<u>3</u>	<u>3</u>	<u>3</u>
TOTAL CHEMISTRY COURSE REQUIREMENTS		40	34	36
BIOLOGY COURSES REQUIRED:				
BIOL 1301/1107	GENERAL BIOLOGY I & LAB	--(2)	--(2)	4
BIOL 1308/1108	GENERAL BIOLOGY II & LAB	--(2)	--(2)	4
BIOL 3334	GENETICS	--(2)	--(2)	3
BIOL 3437	MOLECULAR BIOLOGY & LAB	--(2)	--(2)	4
BIOL 3439	MICROBIOLOGY & LAB	--(2)	--(2)	<u>4</u>
TOTAL BIOLOGY COURSE REQUIREMENTS		--(2)	--(2)	19
SUPPORTING COURSES REQUIRED:				
MATH 2313/2314	CALCULUS I & CALCULUS II	6	6	6
MATH 21	CALCULUS III	3		
PHYS 2320 ⁽³⁾ /2125	MECHANICS AND WAVES & LAB	4	4	4
PHYS 2321 ⁽³⁾ /2216	ELECTRICITY AND MAGNETISM & LAB	4	4	4
SCI 45	HISTORY AND PHILOSOPHY OF SCIENCE	<u>3</u>	<u>3</u>	<u>3</u>
TOTAL SUPPORTING COURSE REQUIREMENTS		20	17	17

⁽¹⁾The required upper-division chemistry elective hours must come from a single 3-hour lecture course.

⁽²⁾These 19 hours of biology are not required for a B.A. or B.S. in chemistry but are required for the pre-medical/dental curriculum.

⁽³⁾PHYS 2325 & PHYS 226 may be substituted for PHYS 2320 & PHYS 2321.