

Degree Requirements

COLLEGE OF SCIENCES

Bachelor of Science in Chemistry (Biochemistry Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 ¹	3	Humanities Electives ⁵	6
Mathematics		Literature	3
MATH 2114 ^{2,4}	4	Social Sciences	
MATH 2124 ^{2,4}	4	Social Sciences elective ⁵	6
Science		Arts	
BIOS 1083	3	Arts elective ⁵	3
PHYS 1061	3		
Total			39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Approved MATH Elective ⁶	3	CHEM 2025	3
CHEM 1000	1	CHEM 2117	3
CHEM 1007	1	CHEM 2217	3
CHEM 1008	1	Computer Programming Elective ⁷	3
CHEM 1017	3	PHYS 1063 ⁸	1
CHEM 1018	3	PHYS 1065 ⁹	1
CHEM 2017	1	General Electives	14
Total			43³

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 2000	1	CHEM 3411	3
CHEM 3018	3	CHEM 4000	0
CHEM 3027	3	Advanced Chemistry Elective ¹⁰	3
CHEM 3094	4	Advanced Chemistry Elective ¹⁰	3
CHEM 3218	1		
CHEM 3310	3		
Total			24

Biochemistry Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BIOS 3453, 4153, 4334, 4490 (requires prior approval) or 4713	3	BIOS 1081	1
CHEM 4510	3	BIOS 2114	4
CHEM 4511	3		
Total			14

Total Credit Hours Required	
	120

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Additional Requirements

Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

BIOS 4114 and research in biochemistry culminating in a comprehensive written report are highly recommended.

This degree program is approved by the American Chemical Society (ACS). The department is authorized to certify that graduating students have completed a bachelor's degree meeting the ACS guidelines.

¹ "C" or better required

² 6 credits of Math satisfy the General Education requirements. Check General Education Courses to confirm what courses fulfill this requirement.

³ Includes 2 credits of Math listed in General Education Requirements section. Check General Education Courses to confirm what courses fulfill this requirement.

⁴ Completion of MATH 2107, 2108 and 2 credits of general electives fulfills the requirement for MATH 2114, 2124.

Completion of Math 2111, MATH 2112 and 1 credit of general electives fulfills all the math requirements for the BS degree.

⁵ Check General Education Courses to confirm what courses fulfill this requirement.

⁶ Must be taken from the following: MATH 2134, 2314, 3511. MATH 1125 and 1126 may be used as general elective hours.

⁷ The programming requirement can be fulfilled by CSCI 1201, 1203, 1205, 1581/1583 or CHEM 2310.

⁸ PHYS 1033 can be used to replace PHYS 1063.

⁹ PHYS 1034 can be used to replace PHYS 1065.

¹⁰ Must be taken from the following: CHEM 3096, 3110, 3610, 3710, 4110, 4210, 4310, 4311, 4410, 4510, 4511; BIOS 4103, 4113, 4153, 4334, 4490 (approval required); 4713; 3 cr. hr. must be at the 4000 level.