

Degree Requirements

COLLEGE OF SCIENCES

B.S. in Chemistry (Medicinal 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		ENGL 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 2017	1
BIOS 1081	1	CHEM 2025	3
BIOS 2114	4	CHEM 2117	3
CHEM 1000	1	CHEM 2217	3
CHEM 1007	1	Computer Programming Elective ⁷	3
CHEM 1008	1	PHYS 1063 ⁸	1
CHEM 1017	3	PHYS 1065 ⁹	1
CHEM 1018	3	General Electives	17
Total			51³

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 2000	1	CHEM 3310	3
CHEM 3018	3	CHEM 3411	3
CHEM 3094	4	CHEM 4000	0
CHEM 3218	1	Advanced Chemistry Elective ¹⁰	3
Total			18

Medicinal Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 3027	3	CHEM 4210	3
CHEM 3710	3	CHEM 4510	3
Total			12

Total Credit Hours Required	
120	

Additional Requirement
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)
Additional recommended courses include CHEM 4511, BIOS 4114, computer science courses leading to bioinformatics (CSCS 4567), and EES 4115, Toxicology and Human Health.

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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.