

Degree Requirements

COLLEGE OF SCIENCES

Bachelor of Science 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.