

MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Bachelor of Arts Chemistry

FRESHMAN YEAR

| | Credit |
|--|--------|
| First Semester | |
| Chem 1-General Chemistry | 4 |
| Chem 2-General Chemistry Lab | 1 |
| Chem 4-Intro to Lab Safety | 1 |
| Math 8-Calculus with Analytic Geometry I | 5 |
| English 20-Exposition & Argumentation..... | 3 |
| | 14 |

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| Second Semester | |
| Chem 3-General Chemistry | 3 |
| Chem 8-Qualitative Analysis | 2 |
| History 111-Early Western Civilization | 3 |
| Math 21-Calculus w/Analytic Geometry II..... | 5 |
| Humanities Electives..... | 3 |
| | 16 |

SOPHOMORE YEAR

| | Credit |
|---|--------|
| First Semester | |
| Chem 221-Organic Chemistry I..... | 4 |
| Chem 226-Organic Chemistry I Lab | 1 |
| Electives | 5 |
| History 112-Modern Western Civilization | 3 |
| Humanities Elective..... | 3 |
| | 16 |

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|--|----|
| Second Semester | |
| Chem 223-Organic Chemistry II..... | 4 |
| Chem 228-Organic Chemistry II Lab..... | 1 |
| Elective..... | 4 |
| English 60-Writing & Research..... | 3 |
| Social Sciences Elective | 3 |
| | 15 |

JUNIOR YEAR

| | Credit |
|--|--------|
| First Semester | |
| Chem 151-Analytical Chemistry I | 4 |
| Physics 21-General Physics I | 4 |
| Physics 22-General Physics Lab I | 1 |
| Stat 213-Applied Engineering Statistics..... | 3 |
| Elective..... | 3 |
| | 15 |

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| Second Semester | |
| Chem Electives (see list below)..... | 4 |
| Physics 25-General Physics II | 4 |
| Physics 26-General Physics Lab II | 1 |
| Electives | 6 |
| | 15 |

SENIOR YEAR

| | Credit |
|---|--------|
| First Semester | |
| Chem 241, 243 or 343-Physical Chemistry | 3 |
| Chem 242 or 244-Physical Chemistry Lab..... | 1 |
| Humanities Elective Literature | 3 |
| Social Sciences Electives | 6 |
| Elective..... | 3 |
| | 16 |

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| Second Semester | |
| Chem 310-Undergraduate Seminar | 1 |
| Humanities Elective | 3 |
| Social Sciences Elective | 3 |
| Electives | 6 |
| | 13 |

Students must complete a minimum of 120 credit hours for the Bachelor of Arts in Chemistry degree. Students may have to take more than the minimum number of coursework hours to comply with the BA requirements due to variations in minor degree and foreign language requirements within an individual's program of study.

Elective credits include a required minor in one of the following areas: English, Economics, History, Philosophy, Psychology, Sociology, Communications, Speech, Media, Political Science, Music, Mathematics, Statistics, Foreign Language, Computer Science, Biology, or Art. See undergraduate catalog for courses required for specific minor. All chemistry majors are encouraged to do research through Chem 390. A total of 9 credits of a modern foreign language must also be taken as part of the electives above.

Chem Elective must be from one or more of the following: Chem 321, 328, 342, 346, 349, 351, 355, 361, 362, 363, 371, 375, 381, 384, 385. This program of study allows students to design, in conjunction with their chemistry advisor, a program for many disciplines including pre-law, business, pre-dentistry, pre-veterinary medicine, as well as pre-medicine. An example of such a program is shown for pre-medical studies:

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| Bio Sc 110-General Biology | 4 |
| Bio Sc 112-General Biology Lab | 1 |
| Bio Sc 211-Cell Biology | 4 |
| Chem 361-General Biochemistry | 3 |
| Chem 362-General Biochemistry Lab | 2 |

A grade of "C" or better is required for each Chemistry course counted towards the degree.