

B.S. degree in Chemistry (Biochemistry Option)

| First year, Fall semester (16 credit hours) | |
|---|---|
| 1. Introductory Chemistry I (chem 1111, 5 credit hours) | <u>Milestone classes</u> 1. Chem 1111 |
| 2. Trigonometry (Math 1035, 2 credit hours) | 2. Math 1035 |
| 3. Freshman Composition (English 1100, 3 credit hours) | 3. _____ |
| 4. Gen Ed Elective (3 credit hours) | <u>Other learning activities</u> 1. Chemistry Club |
| 5. Gen Ed Elective (3 credit hours) | 2. Chemistry Tutoring Lab |
| | 3. Meet with faculty advisor |

| First year, Spring semester (16 credit hours) | |
|---|---|
| 1. Introductory Chemistry II (chem 1121, 5 credit hours) | <u>Milestone classes</u> 1. Chem 1121 |
| 2. Analytical Geometry and Calculus I (Math 1800, 5 credit hours) | 2. Math 1800 |
| 3. Gen Ed Elective (3 credit hours) | 3. _____ |
| 4. State Requirement (3 credit hours) | <u>Other learning activities</u> 1. Chemistry Club |
| | 2. Chemistry Tutoring Lab |
| | 3. Meet with faculty advisor |

| Second year, Fall semester (16 credit hours) | |
|---|---|
| 1. Quantitative Analysis (Chem 2223, 3 credit hours) | <u>Milestone classes</u> 1. Chem 2223 |
| 2. Organic Chemistry I (Chem 2612, 3 credit hours) | 2. Chem 2612 |
| 3. Basic Inorganic (Chem 3412, 2 credit hours) | 3. Math 1900 |
| 4. Analytic Geometry and Calculus 2 (Math 1900, 5 credit hours) | _____ |
| 5. Gen Ed Elective (3 credit hours) | <u>Other learning activities</u> 1. Chemistry Club |
| | 2. Chemistry Tutoring Lab |
| | 3. Meet with faculty advisor |

| Second year, Spring semester (15 credit hours) | |
|---|--|
| 1. Organic Chemistry II (Chemistry 2622, 3 credit hours) | <u>Milestone classes</u> 1. Chem 2612 |
| 2. Organic Chemistry Lab (Chem 2633, 2 credit hours) | 2. Chem 2633 |
| 3. Analytic Geometry and Calculus 3 (Math 2000, 5 credit hours) | 3. Physics 2111 |
| 4. Physics: Mechanic and Heat (Physics 2111, 5 credit hours) | _____ |
| | <u>Other learning activities</u> 1. Chemistry Club |
| | 2. Chemistry Tutoring Lab |
| | 3. Meet with faculty advisor, chose specific degree/option (chem or biochem) |

| Third year, Fall semester (14 credit hours) | |
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| 1. Physical Chemistry I (Chem 3312, 3 credit hours) | <u>Milestone classes</u> 1. Chem 3312 |
| 2. Biochemistry (Chem 4712, 3 credit hours) | 2. Chem 4712 |
| 3. Intro to Chem Lit (Chem 3022, 1 credit hour) | 3. |
| | <u>Other learning activities</u> |
| 4. Introductory Biology I (Bio 1811, 5 credit hours) | 1. Chemistry Club |
| 5. Biochemistry Lab (Chem 4733, 2 credit hours) | 2. Research possible |
| | 3. Meet with Faculty Advisor |

| Third year, Spring semester (16 credit hours) | |
|---|--|
| 1. Physical Chemistry II (Chem 3322, 3 credit hours) | <u>Milestone classes</u> 1. Chem 3322 |
| 2. Physical Chemistry Lab I (Chem 3333, 2 credit hours) | 2. Chem 3333 |
| 3. Physics: Electricity, Magnetism, Optics (Physics 2112, 5 credit hours) | 3. |
| | <u>Other learning activities</u> |
| 4. Junior English Requirement (3 credit hours) | 1. Chemistry Club |
| 5. Cultural Diversity Requirement (3 credit hours) | 2. Research possible |
| | 3. Meet with Faculty advisor |

| Fourth year, Fall semester (14 or 16 credit hours) | |
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| 1. Instrumental Analysis (Chem 4212, 2 credit hours) | <u>Milestone classes</u> 1. Chem 4212 |
| 2. Advanced Inorganic Chemistry (Chem 4412, 3 credit hours) | 2. Chem 4412 |
| 3. Physical Biochem (Chem 4772, 3 credit hours) OR Chem 3905 (Research, 1 credit hours) | 3. |
| | <u>Other learning activities</u> |
| 4. Cell Biology (Bio 3622 3 credit hours) OR Genetics (Bio 2012, 3 credit hours) | 1. Chemistry Club |
| 5. Gen Ed Elective (3 credit hours) | 2. Research possible |
| 6. Elective (3 credit hours) | 3. |

| Fourth year, Spring semester (12 or 13 credit hours) | |
|--|---|
| 1. Instrumental Analysis Lab (Chem 4233, 2 credit hours) | <u>Milestone classes</u> 1. Chem 4897 |
| 2. Advanced Biochem (Chem 4722, 3 credit hours) | 2. Chemistry 3905 (if chosen) |
| 3. Chem 3905 (Chemical Research, 1 credit hour, if research option selected) | 3. |
| | <u>Other learning activities</u> |
| 4. Seminar (Chem 4897, 1 credit hour) | 1. Chemistry Club |
| 5. Gen Ed Elective (3 credit hours) | 2. Research possible |
| 6. Elective (3 credit hours) | 3. Prepare report on Research (if chosen) |