This program map is intended ONLY as a guide for students to plan their course of study. It does NOT replace any information in the Undergraduate Catalog, which is the official guide for completing degree requirements.
### Year 1

#### Term 1
- **A1:** ENGL 1101 (English Composition I) 3
- **A2:** MATH 1113 (Pre calculus) 4
- **B2:** XIDS 2002 (First Year Seminar Course) 2
- **F:** CHEM 1211/1211L (Principles of Chemistry 1 + Lab) 4
- **E1, E2, or E3:** World/US History or US Government 3

**Milestones:**
- Complete ENGL 1101 C or better
- Complete CHEM 1211 and MATH 1113 C or better

#### Term 2
- **A1:** ENGL 1102 (English Composition II) 3
- **D2:** MATH 1634 (Calculus 1) 4
- **F:** CHEM 1212/1212L (Principles of Chemistry 2 + Lab) 4
- **E4:** ECON 2105 OR 2106 (Principles of Macroeconomics or Principles of Microeconomics) 3

**Milestones:**
- Complete ENGL 1102, Economics, and Calculus with C or better
- Complete CHEM 1212 B or better

**Total:**
16 Fall Credit Hours + 14 Spring Credit Hours = 30 Credit Hours

#### Term 1
- **F:** CHEM 2411/2411L (Organic Chemistry 1 + Lab) 4
- **D1:** PHYS 1111 OR 2211 + LAB (Intro Physics 1 or Principles of Physics 1) 4
- **CHEM 2130** (Sophomore Chemistry Seminar) 1
- **F:** MATH 1401 (Elementary Statistics) 3
- **Business Course** 3

**Milestones:**
- Complete CHEM 2411 C or better

#### Term 2
- **CHEM 3422/3422L** (Organic Chemistry 2 + Lab) 4
- **D1:** PHYS 1112 OR 2212 + LAB (Intro Physics 2 or Principles of Physics 2) 4
- **E1, E2, or E3:** World/US History or US Government 3
- **Business Course** 3

**Milestones:**
- Complete Organic Chemistry I and II and Physics I and II C or better

**Total:**
15 Fall Credit Hours + 14 Spring Credit Hours = 29 Credit Hours
## Year 3

### Term 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 3310K Analytical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3510 Survey of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>B1 OR C Communications or Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>BUSINESS COURSE</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete Analytical Chemistry C or better

### Term 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 4711 Biochemistry</td>
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<tr>
<td>E1, E2, OR E3 World/US History or US Government</td>
<td>3</td>
</tr>
<tr>
<td>CHEM ELECTIVE 3000 or 4000 level</td>
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<tr>
<td>BUSINESS COURSE</td>
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</tr>
<tr>
<td>ELECTIVE</td>
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16 Fall Credit Hours + 15 Spring Credit Hours = 31 Credit Hours

## Year 4

### Term 1

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEM 4610 Inorganic Chemistry</td>
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</tr>
<tr>
<td>B1 OR C Communications or Humanities/Fine Arts</td>
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<td>ELECTIVE</td>
<td>3</td>
</tr>
<tr>
<td>BUSINESS COURSE</td>
<td>3</td>
</tr>
<tr>
<td>CHEM ELECTIVE 3000 or 4000 level</td>
<td>3</td>
</tr>
</tbody>
</table>

### Term 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1 OR C Communications or Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4910L Tools and Applications in Chemical Research and Practice</td>
<td>3</td>
</tr>
<tr>
<td>BUSINESS COURSE</td>
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<tr>
<td>ELECTIVE</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td>3</td>
</tr>
</tbody>
</table>

15 Fall Credit Hours + 15 Spring Credit Hours = 30 Credit Hours

**Key**
- **Color**: Core Area and Credit Hours
- **Color**: Business Course. Students must choose a Business Minor. The number of Business courses could vary depending on which minor.
- **Color**: Chemistry Course
- **Color**: Elective Course
A1 Communication Skills
A2 Quantitative Skills
B1 Written and Oral Communications
B2 Other Institutional Options
C1 Fine Arts
C2 Humanities
D1 Natural Science
D2 Mathematics, Science, and Quantitative Technology
E1 World History
E2 American/Georgia History
E3 American/Georgia Government
E4 Social Science
F Major Courses
<table>
<thead>
<tr>
<th><strong>READY</strong></th>
<th><strong>SET</strong></th>
<th><strong>GO</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td><strong>MIDDLE YEARS</strong></td>
<td><strong>LAST YEAR</strong></td>
</tr>
</tbody>
</table>
| • Choose Concentration (ACS track recommended) | • Take Sophomore Seminar  
  • Complete Organic Chemistry sequence  
  • Complete Analytical Chemistry  
  • Complete other supporting courses (see Advisor to have a clear roadmap) | • Take Senior Seminar  
  • Take senior capstone course(s) and complete a senior project  
  • Complete all required courses for a degree |
| • Connect with your faculty mentor  
  • Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended) | • Join a research group or seek for student employment (workshop leader, laboratory assistant)  
  • Attend program/department/college events  
  • Attend senior research presentations and on-campus conferences  
  • Study and hang out in the student lounge (TLC 2116) | • Attend program/department/college events  
  • Attend on-campus conferences  
  • Study and hang out in the student lounge (TLC 2116) |
| • Look at the Chemistry Careers page on the American Chemical Society’s webpage | • Explore internships or part-time jobs in career-related areas (industry, pharmacy, etc)  
  • Explore summer internships or REU programs  
  • Explore volunteer opportunities with a club or in career-related areas | • Re-examine career paths with a chemistry degree (ACS Career page, alumni connections, your own aptitude and interest) |
| • Sign up for Handshake through Career Services | • Sign up for Handshake through Career Services  
  • Create an account in LinkedIn  
  • Talk to alumni guest speakers and make connections | • Talk to alumni in a career field of interest, matched by your faculty mentor |
| • Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center  
  • Find study buddies  
  • Go to events, have fun (balance time between study, work, and fun) | • Talk to your faculty mentor  
  • Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center  
  • Find study buddies  
  • Go to events, have fun (balance time between study, work, and fun) | • Talk to your faculty mentor  
  • Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center  
  • Find study buddies  
  • Go to events, have fun (balance time between study, work, and fun) |
| • Look at the Careers page on the American Chemical Society’s webpage | • Write preliminary resume  
  • Seek for resume-building opportunities related to your career goal (employment, research, activities, volunteering) | • Build hands-on experience through research and/or internships  
  • Update your resume or CV  
  • Apply for graduate schools, professional school, or jobs  
  • Make sure to get help from Career Services for cover letters, resume, application, and interviews |