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.
## Program Map

### Year 1

#### Term 1
- **A1:** ENGL 1101  
  English Composition I  
  Milesstones: 
  • Complete ENGL 1101 C or better  
  • Complete MATH 1111 to be able to progress to MATH 1113 and CHEM 1211/1211L  
- **B2:** XIDS 2002  
  First Year Seminar Course  
- **E3:** POLS 1101  
  American Government  
- **B1 OR C**  
  Communications or Humanities/Fine Arts  

#### Term 2
- **A1:** ENGL 1102  
  English Composition II  
- **A2:** MATH 1113  
  Pre-calculus  
- **F:** CHEM 1211/1211L  
  Principles of Chemistry I + Lab  
- **E4:** ECON 2105 OR 2106  
  Principles of Macroeconomics or Principles of Microeconomics  

#### Milestones:
- Complete ENGL 1102 C or better  
- Complete CHEM 1211/1211L B or better over the summer to remain on track  

### Term 3
- **F:** CHEM 1212/1212L  
  Principles of Chemistry I + Lab  
- **E1 OR E2**  
  World or US History  

#### Milestones:
- Complete CHEM 1212/1212L B or better over the summer to remain on track  

### Year 2

#### Term 1
- **F:** CHEM 2411/2411L  
  Organic Chemistry I + Lab  
- **D1:** PHYS 1111 OR 2211 + LAB  
  Intro Physics 1 or Principles of Physics 1  
- **CHEM 2130**  
  Sophomore Chemistry Seminar  
- **D2:** MATH 1634  
  Calculus I  
- **BUSINESS COURSE**  
  3  

#### Milestones:
- Complete Chemistry Sophomore Seminar  
- Complete 2411/2411L C or better  

#### Term 2
- **F:** CHEM 3422/3422L  
  Organic Chemistry II + Lab  
- **D1:** PHYS 1112 OR 2212 + LAB  
  Intro Physics 2 or Principles of Physics 2  
- **F:** MATH 1401  
  Elementary Statistics  
- **BUSINESS COURSE**  
  3  

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

14 Fall Credit Hours + 14 Spring Credit Hours + 7 Summer Credit Hours = 35 Credit Hours
# Program Map

## Year 3

### Term 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3310K</td>
<td>4</td>
</tr>
<tr>
<td>Analytical Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 3510</td>
<td>3</td>
</tr>
<tr>
<td>Survey of Physical Chemistry</td>
<td></td>
</tr>
<tr>
<td><strong>BUSINESS COURSE</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>GENERAL ELECTIVE</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

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

### Term 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4711</td>
<td>3</td>
</tr>
<tr>
<td>Biochemistry</td>
<td></td>
</tr>
<tr>
<td><strong>E1 OR E2</strong></td>
<td>3</td>
</tr>
<tr>
<td>World or US History</td>
<td></td>
</tr>
<tr>
<td><strong>CHEM ELECTIVE</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>BUSINESS COURSE</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>GENERAL ELECTIVE</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete Inorganic Chemistry and One Chemistry Elective (3000-4000) C or better

**Total:**

13 Fall Credit Hours + 15 Spring Credit Hours = 28 Credit Hours

## Year 4

### Term 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4610</td>
<td>3</td>
</tr>
<tr>
<td>Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td><strong>B1 OR C</strong></td>
<td>3</td>
</tr>
<tr>
<td>Communications or Fine Arts/Humanities</td>
<td></td>
</tr>
<tr>
<td><strong>CHEM ELECTIVE</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>BUSINESS COURSE</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>GENERAL ELECTIVE</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete Biochemistry and One Chemistry Elective (3000-4000) C or better

### Term 2

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

**Milestones:**
- Complete Tools and Apps C or better

**Total:**

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
**First Year**
- Choose Concentration (ACS track recommended)
- Connect with your faculty mentor
- Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended)
- Look at the Chemistry Careers page on the American Chemical Society's webpage
- Sign up for Handshake through Career Services
- 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

**Middle Years**
- Take Sophomore Seminar
- Complete Organic Chemistry sequence
- Complete Analytical Chemistry
- Complete other supporting courses (see Advisor to have a clear roadmap)
- 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)
- 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
- Sign up for Handshake through Career Services
- Create an account in LinkedIn
- Talk to alumni guest speakers and make connections
- 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)
- 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)
- Write preliminary resume
- Seek for resume-building opportunities related to your career goal (employment, research, activities, volunteering)

**Last Year**
- Take Senior Seminar
- Take senior capstone course(s) and complete a senior project
- Complete all required courses for a degree
- Attend program/department/college events
- Attend on-campus conferences
- Study and hang out in the student lounge (TLC 2116)
- Re-examine career paths with a chemistry degree (ACS Career page, alumni connections, your own aptitude and interest)
- Talk to alumni in a career field of interest, matched by your faculty mentor
- Talk to alumni in a career field of interest, matched by your faculty mentor
- Talk to alumni in a career field of interest, matched by your faculty mentor
- 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