BS Chemistry

60
50
13

CORE CREDIT HOURS

MAJOR CREDIT HOURS

ELECTIVE CREDIT HOURS

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**

**15 Fall Credit Hours + 15 Spring Credit Hours + 4 Summer Credit Hours = 34 Credit Hours**

**TERM 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: ENGL 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1111</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>B2: XDS 2002</td>
<td>First Year Seminar Course</td>
<td>2</td>
</tr>
<tr>
<td>D1: BIOL 1107/1107L</td>
<td>Principles of Biology I+ Lab</td>
<td>4</td>
</tr>
<tr>
<td>C OR E</td>
<td>Humanities/Fine Arts or Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL

**TERM 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: ENGL 1102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>A2: MATH 1113</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>F: CHEM 1211/1211L</td>
<td>Principles of Chemistry I + Lab</td>
<td>4</td>
</tr>
<tr>
<td>D1: BIOL 1108/1108L</td>
<td>Principles of Biology II + Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL

**TERM 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: CHEM 1212/1212L</td>
<td>Principles of Chemistry I + Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- COMPLETE CHEMISTRY II B OR BETTER TO BE REMAIN ON TRACK

**TERM 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: MATH 1401</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 3422/3422L</td>
<td>Organic Chemistry 2 + Lab</td>
<td>4</td>
</tr>
<tr>
<td>E4: ECON 2105 OR 2106</td>
<td>Principles of Macro or Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2022/2022L</td>
<td>Human Anatomy and Physiology 2+ Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL
- COMPLETE CHEM 3422 WITH A C OR BETTER
- ECON 2105 OR 2106 ARE REQUIRED FOR MANY PHARMACY SCHOOLS

**13 Fall Credit Hours + 14 Spring Credit Hours = 27 Credit Hours**
### Year 3

#### Term 1
- **Biol 2030/2030L or 3310** 4
  - Med Microbiology/Lab or Microbiology
- **C or E** 3
  - Humanities/Fine Arts or Social Sciences
- **C or E** 3
  - Humanities/Fine Arts or Social Sciences
- **Chem 3310K** 4
  - Analytical Chemistry

**Milestones:**
- Overall B or better grades highly desirable to be competitive for Pharmacy School
- Chem 3310K may be taken summer after year 2

#### Term 2
- **Phys 1111/1111L** 4
  - Introductory Physics 1 + Lab
- **B1: Comm 1110** 3
  - Public Speaking
- **C or E** 3
  - Humanities/Fine Arts or Social Sciences
- **C or E** 3
  - Humanities/Fine Arts or Social Sciences
- **Chem 4711** 3
  - Biochemistry

**Milestones:**
- Take PCAT
- Reach 70-90 hours depending on desire Pharmacy School
- Public Speaking (Comm 1110) required for many Pharmacy Schools

14 Fall Credit Hours + 16 Spring Credit Hours = 30 Credit Hours

#### Year 4

#### Term 1
- **Chem 3510** 3
  - Survey of Physical Chemistry
- **Phys 1112/1112L** 4
  - Introductory Physics 2 + Lab
- **Chem 4610** 3
  - Inorganic Chemistry
- **Elective** 3
  - 3000/4000 Level Course
- **Chem Elective** 3
  - 3000/4000 Level Course

**Milestones:**
- If students took Biol 4503, one of the elective courses must be a Chem 3000/4000.

#### Term 2
- **Elective** 3
  - 3000/4000 Level Course
- **Elective** 3
  - 3000/4000 Level Course
- **Elective** 4
  - 3000/4000 Level Course
- **Chem Elective** 3
  - 3000/4000 Level Course
- **Chem 4910L** 3
  - Tools and Applications in Chemical Research and Practice

16 Fall Credit Hours + 16 Spring Credit Hours = 32 Credit Hours

**Key**
- **C**: Core Area and Credit Hours
- **E**: Chemistry Course
- **Elective**: 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
### Ready

#### First Year
- Choose Concentration (ACS track recommended)

#### Middle Years
- Take Sophomore Seminar
- Complete Organic Chemistry sequence
- Complete Analytical Chemistry
- Complete other supporting courses (see Advisor to have a clear roadmap)

#### Last Year
- Take Senior Seminar
- Take senior capstone course(s) and complete a senior project
- Complete all required courses for a degree

### Set

#### Find Your Place
- Connect with your faculty mentor
- Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended)

#### Broaden Your Perspectives
- Look at the Chemistry Careers page on the American Chemical Society's webpage

#### Connect Off-Campus
- Sign up for Handshake through Career Services

### Go

#### Take Care of Yourself
- 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)

#### Pave Your Path
- Look at the Careers page on the American Chemical Society's webpage

#### Connect
- 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)

#### Senior
- Re-examine career paths with a chemistry degree (ACS Career page, alumni connections, your own aptitude and interest)

#### Have Fun
- Talk to alumni in a career field of interest, matched by your faculty mentor

#### Explore
- 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)

#### Update
- Write preliminary resume
- Seek for resume-building opportunities related to your career goal (employment, research, activities, volunteering)

#### Build
- 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