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: FALL
- **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
- **E3**: POLS 1101 American Government 3

**Milestones:**
- Overall B or better grades highly desirable to be competitive for medical school

#### TERM 2: SPRING
- **A1**: ENGL 1102 English Composition II 3
- **D2**: MATH 1634 Calculus 1 4
- **F**: CHEM 1212/1212L Principles of Chemistry 2 + Lab 4
- **D1**: BIOL 1107/1107L Principles of Biology 1 + Lab 4

**Milestones:**
- CHEM 1212 grade of B or better required to move into Organic Chemistry

### 16 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 31 CREDIT HOURS

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### Year 2

#### TERM 1: FALL
- **F**: CHEM 2411/2411L Organic Chemistry 1 + Lab 4
- **D1**: BIOL 1108/1108L Principles of Biology II + Lab 4
- **E4**: SOCI 1101 or PSYC 1101 Intro to Sociology or Intro to Psychology 3
- **F**: MATH 1401 or 2644 Elementary Statistics or Calculus II 3
- **CHEM 2130** Sophomore Chemistry Seminar 1

**Milestones:**
- Overall B or better grades highly desirable to be competitive for medical school

#### TERM 2: SPRING
- **CHEM 3422/3422L** Organic Chemistry 2 + Lab 4
- **B1**: PHIL 2020 Critical Thinking 3
- **BIOL ELECTIVE** 3000/4000 level course 4
- **GENERAL ELECTIVE** 3

**Milestones:**
- Overall B or better grades highly desirable to be competitive for medical school

### 15 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 29 CREDIT HOURS
### Year 3

#### Term 1: Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3310K Analytical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1111/2211 + LAB Introductory or Principles of Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL ELECTIVE 3000/4000 Level Course</td>
<td>4</td>
</tr>
<tr>
<td>PSYC OR SOC ELECTIVE 3000/4000 Level Course</td>
<td>4</td>
</tr>
</tbody>
</table>

**Milestones:**
- CHEM 3422+L and CHEM 3310K must be completed with a C or better before taking CHEM 4711.
- Biology electives can be taken in any order but need to be taken before attempting the MCAT.

#### Term 2: Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1112/2212 + LAB Introductory or Principles of Physics 2</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 4711 Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ELECTIVE 3000/4000 Level Course</td>
<td>4</td>
</tr>
<tr>
<td>LITERATURE CLASS</td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- TAKE MCAT
- Biology electives can be taken in any order but need to be taken before attempting the MCAT.

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

### Year 4

#### Term 1: Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3510 Survey of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 4610 Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM ELECTIVE 3000/4000 Level Course</td>
<td>3</td>
</tr>
<tr>
<td>E1 OR E2 World or US History</td>
<td>3</td>
</tr>
<tr>
<td>FINE ARTS</td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Overall B or better grades highly desirable to be competitive for medical school.

#### Term 2: Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4910L Tools and Applications in Chemical Research and Practice</td>
<td>3</td>
</tr>
<tr>
<td>CHEM ELECTIVE 3000/4000 Level Course</td>
<td>3</td>
</tr>
<tr>
<td>E1 OR E2 World or US History</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE 3000/4000 Level Course</td>
<td>3</td>
</tr>
</tbody>
</table>

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

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**Additional Information**
- Recommended Biology Electives: Cell and Molecular Biology, Human Physiology, Genetics, Microbiology.
- This program map was developed for Medical School. The courses in the first three years have been laid out to prepare students for the MCAT. The MCAT should be taken in the summer after Year 3.
- This program map can be adapted for Dental, Vet, Physician’s Assistant, Anesthesiology Assistant or Physical Therapy programs. Please see an advisor to make adjustments for those programs.
READY

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 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)

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 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)
• 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
Where can you go with this degree?

CAREERS

- Analytical Chemist
- Chemical Engineer
- Geochemist
- Hazardous Waste Chemist
- Organic Chemist
- Pharmacologist
- Quality Control Chemist
- Synthetic Chemist
- Toxicologist
- Water Chemist