ABOUT THE MAJOR
This degree has as its core a number of fundamental courses in chemistry and allows for students with interests in additional fields to build a broad based curriculum. Combining this degree with a minor or second major prepares students for a variety of career opportunities in addition to laboratory positions and include the following: with business – technical sales; with biology or geology – environmental studies, industrial hygiene; with political science followed by law school – patent law; with education – middle school or high school teaching.

ABOUT THIS MAP
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. Use this map to help plan and guide your experience at UWG, including academic, co-curricular, and discovery opportunities. Everyone’s experience is different and activities in this map are suggestions. Always consult with your advisors whenever possible for new opportunities and updates.

WHERE CAN YOU GO WITH THIS DEGREE?
- Analytical Chemist
- Chemical Engineer
- Geochemist
- Hazardous Waste Chemist
- Organic Chemist
- Pharmacologist
- Quality Control Chemist
- Synthetic Chemist
- Toxicologist
- Water Chemist

ADD A CERTIFICATE
- Atmospheric Science
- Forensic Sciences
- Stream Restoration
- Wildlife Ecology

VISIT WOLFWATCH FOR MORE INFORMATION.
HAVE A QUESTION? CHECK IN WITH YOUR ADVISOR!

Visit westga.edu/program-maps for the latest version of this major map.
## YEAR 1

### TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: ENGL 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>A2: MATH 1113</td>
<td>Pre-calculus</td>
<td>4</td>
</tr>
<tr>
<td>B2: XIDS 2002</td>
<td>First-Year Seminar</td>
<td>2</td>
</tr>
<tr>
<td>F: CHEM 1211 + LAB</td>
<td>Principles of Chemistry I</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:**
- \( \text{OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL} \)

**Complete:**
- \( \text{CHEM 1212 with B OR BETTER} \)
- \( \text{BE COMPETITIVE FOR PHARMACY SCHOOL} \)
- \( \text{OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL} \)

### TERM 1: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: ENGL 1102</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>D2: MATH 1634</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>F: CHEM 1212 + LAB</td>
<td>Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>D1: BIOL 1107 + LAB</td>
<td>Principles of Biology I</td>
<td>4</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- \( \text{OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL} \)

**Complete:**
- \( \text{CHEM 3422 with C OR BETTER} \)
- \( \text{PHARMACY SCHOOLS} \)
- \( \text{ECON 2105 OR 2106 ARE REQUIRED FOR MANY PHARMACY SCHOOLS} \)
- \( \text{PUBLIC SPEAKING (COMM 1110) IS REQUIRED FOR MANY PHARMACY SCHOOLS} \)

### CRUSH YOUR COURSEWORK

- **Choose Concentration (ADS track recommended).**

### FIND YOUR PLACE

- **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.**

### BROADEN YOUR PERSPECTIVES

- **Sign up for Handshake through Career Services.**
- **Create an account in LinkedIn.**
- **Talk to alumni guest speakers and make connections.**
- **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.**

### TAKE CARE OF YOURSELF

- **Look at the Careers page on the American Chemical Society’s webpage.**
- **Study and hang out in the student lounge (TLC 2116).**
- **Attend senior research presentations and on-campus conferences.**
- **Complete other supporting courses (see Advisor to have a clear roadmap).**

### TAKE CARE OF YOURSELF

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

### PAVE YOUR PATH

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

### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
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<td>4</td>
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</tbody>
</table>

**MILESTONES:**
- \( \text{OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL} \)

**Complete:**
- \( \text{CHEM 3422 with C OR BETTER} \)
- \( \text{ECON 2105 OR 2106 ARE REQUIRED FOR MANY PHARMACY SCHOOLS} \)
- \( \text{COMPLETE CHEM 3422 WITH C OR BETTER} \)

### CRUSH YOUR COURSEWORK

- **Take 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).**

### FIND YOUR PLACE

- **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.**

### BROADEN YOUR PERSPECTIVES

- **Sign up for Handshake through Career Services.**
- **Create an account in LinkedIn.**
- **Talk to alumnus guest speakers and make connections.**
- **Explore internships or part-time jobs in career-related areas.**
- **Explore summer internships or REU programs.**
- **Explore volunteer opportunities with a club or in career-related areas.**

### TAKE CARE OF YOURSELF

- **Talk to your faculty mentor.**
- **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).**

### TAKE CARE OF YOURSELF

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

### PAVE YOUR PATH

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

#### TERM 1: FALL
- **CHEM 3310K**  
  Analytical Chemistry 4 CREDIT HOURS
- **BIOL 2260/2260L OR 3310**  
  Foundations of Microbiology/Lab or Microbiology 4 CREDIT HOURS
- **BIOL 2252 + LAB**  
  Human Anatomy and Physiology II 4 CREDIT HOURS
- **C OR E**  
  Humanities, Fine Arts, or Social Sciences 3 CREDIT HOURS

**MILESTONES:**  
- Overall A or better grades highly desirable to be competitive for pharmacy school.  
- CHEM 3310K may be taken summer after year 2.

#### TERM 2: SPRING
- **CHEM 4711**  
  Biochemistry 3 CREDIT HOURS
- **PHYS 1111 + LAB**  
  Introductory Physics I 4 CREDIT HOURS
- **C OR E**  
  Humanities, Fine Arts, or Social Sciences 3 CREDIT HOURS
- **ELECTIVE**  
  3000 or 4000 level course 3 CREDIT HOURS

**MILESTONES:**  
- Complete 70-90 hours based on desired pharmacy school.  
- Take PCAT.

**YEAR 4**

#### TERM 1: FALL
- **CHEM 4610**  
  Inorganic Chemistry 3 CREDIT HOURS
- **CHEM 3510**  
  Survey of Physical Chemistry 3 CREDIT HOURS
- **PHYS 1112 + LAB**  
  Introductory Physics II 4 CREDIT HOURS
- **ELECTIVE**  
  3000 or 4000 level course 3 CREDIT HOURS

#### TERM 2: SPRING
- **CHEM ELECTIVE**  
  3000/4000 Level Course 3 CREDIT HOURS
- **CHEM 4910L**  
  Tools and Applications in Chemical Research and Practice 3 CREDIT HOURS
- **ELECTIVE**  
  3000/4000 Level Course 3 CREDIT HOURS

**PAVE YOUR PATH**
- **15 FALL CREDIT HOURS + 16 SPRING CREDIT HOURS = 31 CREDIT HOURS**

**BROADEN YOUR PERSPECTIVES**
- **COMPLETE 70-90 HOURS BASED ON DESIRED PHARMACY SCHOOL.**
- **TAKE PCAT.**

**CRUSH YOUR COURSEWORK**
- **TAKE Sophomore Seminar.**
- **COMPLETE Organic Chemistry sequence.**
- **COMPLETE Analytical Chemistry.**
- **COMPLETE other supporting courses (see Advisor to have a clear roadmap).**

**PAY YOUR PATH**
- **16 FALL CREDIT HOURS + 13 SPRING CREDIT HOURS = 29 CREDIT HOURS**

**FIND YOUR PLACE**
- **JIN 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).**

**TAKING CARE OF YOURSELF**
- **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.**

**CONNECT OFF-CAMPUS**
- **SIGN up for Handshake through Career Services.**
- **CREATE an account in LinkedIn.**
- **SIGN up for Handshake through Career Services.**

**PAY YOUR PATH**
- **COMPLETE all required courses for a degree.**

**FIND YOUR PLACE**
- **ATTEND program/department/college events.**
- **ATTEND on-campus conferences.**
- **Study and hang out in the student lounge (TLC 2116).**

**TAKING CARE OF YOURSELF**
- **REVISE cover letters, resume, application, and interviews.**
- **MAKE sure to get help from Career Services.**

**CONNECT OFF-CAMPUS**
- **TALK to alumni in a career field of interest, matched by your faculty mentor.**

**PAY YOUR PATH**
- **COMPLETE Senior Seminar.**
- **TAKE senior capstone course(s) and complete a senior project.**
- **COMPLETE all required courses for a degree.**

**FIND YOUR PLACE**
- **RE-examine career paths with a chemistry degree (ACS Career page, alumni connections, your own aptitude and interest).**

**TAKING CARE OF YOURSELF**
- **GO to events, have fun (balance time between study, work, and fun).**
- **TALK to your faculty mentor.**

**CONNECT OFF-CAMPUS**
- ** inequalities of the subject.**
- **TALK to your faculty mentor.**

**PAY YOUR PATH**
- **COMPLETE Senior Seminar.**
- **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.**