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
- Data Analytics
- Forensic Sciences
- Stream Restoration
- Sustainable Business
- Wildlife Ecology

HONORS COLLEGE
Consider joining if you have an Overall GPA of 3.2 and earned 15 college credit hours!

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>C1: ENGL 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>M: MATH 1113</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>I2: 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>S1 OR P</td>
<td>World/US History or US Government</td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- Complete ENGL 1101 with C or better.
- Complete CHEM 1211 and MATH 1113 with C or better.

#### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>C2: ENGL 1102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>T3: 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>S2: ECON 2105 OR 2106</td>
<td>Principles of Microeconomics or Principles of Macroeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- Complete ENGL 1102, ECONOMICS, and CALCULUS with C or better.
- Complete CHEM 1212 with B or better.

#### CRUSH YOUR COURSEWORK

- 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.

#### FIND YOUR PLACE

- Complete Organic Chemistry I and II and Physics I and II with C or better.

#### BROADEN YOUR PERSPECTIVES

- Explore internships or part-time jobs in career-related areas (industry, pharmacy, etc).
- Explore summer internships or NSF programs.
- Attend senior research presentations and on-campus conferences.

#### CONNECT OFF-CAMPUS

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

#### TAKE CARE OF YOURSELF

- Talk to your faculty mentor.
- Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center.

#### PAIVE YOUR PATH

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

### YEAR 2

#### TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: CHEM 2411 + LAB</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>T1: PHYS 1111 OR 2211 + LAB</td>
<td>Intro Physics I or Principles of Physics I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2130</td>
<td>Sophomore Chemistry Seminar</td>
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<tr>
<td>F: MATH 1401</td>
<td>Elementary Statistics</td>
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</tr>
<tr>
<td>S1 OR P</td>
<td>World/US History or US Government</td>
<td>3</td>
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</tbody>
</table>

**MILESTONE:**
- Complete CHEM 2411 with C or better.

#### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3422 + LAB</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>T2: PHYS 1112 OR 2212 + LAB</td>
<td>Intro Physics II or Principles of Physics II</td>
<td>4</td>
</tr>
<tr>
<td>S1 OR P</td>
<td>World/US History or US Government</td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONE:**
- Complete Organic Chemistry I and II and Physics I and II with C or better.

#### CRUSH YOUR COURSEWORK

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

#### FIND YOUR PLACE

- 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.

#### BROADEN YOUR PERSPECTIVES

- Explore internships or part-time jobs in career-related areas (industry, pharmacy, etc).
- Explore summer internships or NSF 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.
- Talk to alumna guest speakers and make connections.

#### TAKE CARE OF YOURSELF

- Talk to your faculty mentor.
- Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center.

#### PAIVE YOUR PATH

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

- 15 Fall Credit Hours + 14 Spring Credit Hours = 29 Credit Hours
## YEAR 3

### TERM 1: FALL

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>CHEM 3310K</td>
<td>Analytical Chemistry</td>
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<tr>
<td>CHEM 3510</td>
<td>Survey of Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>11 OR A</td>
<td>Communications or Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUSINESS COURSE</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestone:**
- Complete Analytical Chemistry with C or better

### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CHEM 4711</td>
<td>Biochemistry</td>
<td>3</td>
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<tr>
<td>S1 OR P</td>
<td>World/US History or US Government</td>
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</tr>
<tr>
<td>CHEM ELECTIVE</td>
<td>3000 or 4000 level course</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BUSINESS COURSE</td>
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<td>3</td>
</tr>
</tbody>
</table>

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

### CRUSH YOUR COURSEWORK

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

### FIND YOUR PLACE

- 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).

### BROADEN YOUR PERSPECTIVES

- 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.
- Talk to alumni guest speakers and make connections.

### TAKE CARE OF YOURSELF

- 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).

### PAVE YOUR PATH

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

## YEAR 4

### TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 4610</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>11 OR A</td>
<td>Communications or Humanities</td>
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</tr>
<tr>
<td>CHEM ELECTIVE</td>
<td>3000 or 4000 level course</td>
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</tr>
<tr>
<td>ELECTIVE</td>
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<td>3</td>
</tr>
<tr>
<td>BUSINESS COURSE</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 30 CREDIT HOURS

### CRUSH YOUR COURSEWORK

- Take Senior Seminar.
- Take senior capstone course(s) and complete a senior project.
- 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).

### BROADEN YOUR PERSPECTIVES

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

### CONNECT OFF-CAMPUS

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

### TAKE CARE OF YOURSELF

- 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).

### PAVE YOUR PATH

- 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, resumes, application, and interviews.

## Additional Information

- Business Course: Students must choose a Business Minor. The number of Business courses could vary depending on which minor.
- Business Course: Students must choose a Business Minor. The number of Business courses could vary depending on which minor.

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