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

60
CORE CREDIT HOURS

45
MAJOR CREDIT HOURS

15
ELECTIVE CREDIT HOURS

Visit westga.edu/program-maps for the latest version of this major map.
## 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>MATH 1111</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>B2: XIDS 2002</td>
<td>First-Year Seminar</td>
<td>2</td>
</tr>
<tr>
<td>E3: POLS 1101</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>B1 OR C</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- Complete ENGL 1101 with C or Better
- Complete MATH 1111 to be able to progress to MATH 1113 and CHEM 1211/1211L

## TERM 2: 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 II</td>
<td>3</td>
</tr>
<tr>
<td>A2: MATH 1113</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>F: CHEM 1211 + LAB</td>
<td>Principles of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>E4: ECON 2105 OR 2106</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- Complete ENGL 1102 with C or Better
- Complete CHEM 1212/1212L with B or Better over the summer to remain on track.

## TERM 3: SUMMER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: CHEM 1212 + LAB</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>E1 OR E2</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONE:**
- Complete CHEM 1212/1212L with B or Better over the summer to remain on track.

14 Fall Credit Hours + 14 Spring Credit Hours + 7 Summer Credit Hours = 35 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>D1: 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>Organic Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>D2: MATH 1634</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>BUSINESS COURSE</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- Complete Chemistry Sophomore Seminar
- Complete 2411/2411L 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>D1: PHYS 1112 OR 2212 + LAB</td>
<td>Intro Physics II or Principles of Physics II</td>
<td>4</td>
</tr>
<tr>
<td>F: MATH 1401</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BUSINESS COURSE</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONES:**
- Complete Organic Chemistry I and II and Physics I and II with C or Better

## CRUSH YOUR COURSEWORK

- Choose Concentration (ADS 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.
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## 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.
- Look at the Chemistry Careers page on the American Chemical Society’s webpage.

## BROADEN YOUR PERSPECTIVES

- Complete 2411/2411L with C or Better
- Complete Organic Chemistry I and II and Physics I and II with C or Better

## TAKE CARE OF YOURSELF

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

## PAVE YOUR PATH

- 14 Fall Credit Hours + 14 Spring Credit Hours + 7 Summer Credit Hours = 35 Credit Hours
- 16 Fall Credit Hours + 14 Spring Credit Hours = 30 Credit Hours

## CRUSH YOUR COURSEWORK

- Explore internships or part-time jobs in career-related areas (industry, pharmacy, etc).
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## FIND YOUR PLACE

- Find study buddies.
- Services, and Counseling Center.
- Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center.
- Study and hang out in the student lounge (TLC 2116).

## BROADEN YOUR PERSPECTIVES

- Talk to your faculty mentor.
- Give to events, have fun (balance time between study, work, and fun).
- Attend senior research presentations and on-campus conferences.
- Attend senior research presentations and on-campus conferences.

## TAKE CARE OF YOURSELF

- Write preliminary resume.
- Seek for resume-building opportunities related to your career goal (employment, research, activities, volunteering).
- Complete other supporting courses (see Advisor to have a clear roadmap).
- Complete other supporting courses (see Advisor to have a clear roadmap).
TERM 1: FALL

CHEM 3310K
Analytical Chemistry
4 CREDIT HOURS

CHEM 3510
Survey of Physical Chemistry
3 CREDIT HOURS

BUSINESS COURSE
ELECTIVE
3 CREDIT HOURS

MILESTONE:
• COMPLETE ANALYTICAL CHEMISTRY AND PHYSICAL CHEMISTRY WITH C OR BETTER

TERM 2: SPRING

CHEM 4711
Biochemistry
3 CREDIT HOURS

E1 OR E2
CHEM ELECTIVE
3 CREDIT HOURS

BUSINESS COURSE
ELECTIVE
3 CREDIT HOURS

MILESTONE:
• COMPLETE INORGANIC CHEMISTRY AND ONE CHEMISTRY ELECTIVE (3000-4000) WITH C OR BETTER

TERM 1: FALL

CHEM 4610
Inorganic Chemistry
3 CREDIT HOURS

B1 OR C
CHEM ELECTIVE
3 CREDIT HOURS

BUSINESS COURSE
ELECTIVE
3 CREDIT HOURS

MILESTONE:
• COMPLETE BIOCHEMISTRY AND ONE CHEMISTRY ELECTIVE (3000-4000) WITH C OR BETTER

TERM 2: SPRING

CHEM 4910L
Tools and Applications in Chemical Research and Practice
3 CREDIT HOURS

B1 OR C
BUSINESS COURSE
ELECTIVE
ELECTIVE
3 CREDIT HOURS

MILESTONE:
• COMPLETE TOOLS AND APPS WITH C OR BETTER

PAVE YOUR PATH

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

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

Additional Information:
• Business Course: Students must choose a Business Minor. The number of Business courses could vary depending on minor choices.