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 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>I1: ORAL COMMUNICATIONS</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONE:**
- Complete ENGL 1101, MATH 1113, CHEM 1211/1211, 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.

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

#### 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).

**16 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 30 CREDIT HOURS**

### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2: ENGL 1102</td>
<td>English Composition II</td>
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</tr>
<tr>
<td>T3: MATH 1634</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>F: CHEM 1212 + LAB</td>
<td>Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>A: HUMANITIES</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONE:**
- Complete ENGL 1102, MATH 1634 with C or better
- Complete CHEM 1212/1212, with B or better

#### CRUSH YOUR COURSEWORK
- Sign up for Handshake through Career Services.
- 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).

**15/16 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 29/30 CREDIT HOURS**
YEAR 3

TERM 1: FALL

CHEM 3310K
Analytical Chemistry
4 CREDIT HOURS

CHEM 3510
Survey of Physical Chemistry
3 CREDIT HOURS

A: HUMANITIES
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

MILESTONE:
• COMPLETE CHEM 3310K C OR BETTER

TERM 2: SPRING

CHEM 4711
Biochemistry
3 CREDIT HOURS

CHEM ELECTIVE
3000 or 4000 level course
3 CREDIT HOURS

ELECTIVE
3000 or 4000 level course
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

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

TERM 1: FALL

CHEM 4610
Inorganic Chemistry
3 CREDIT HOURS

CHEM ELECTIVE
3000 or 4000 level course
3 CREDIT HOURS

ELECTIVE
3000 or 4000 level course
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

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

TERM 2: SPRING

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

ELECTIVE
3000/4000 Level Course
3 CREDIT HOURS

ELECTIVE
3000/4000 Level Course
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

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

TAKE 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, resume, application, and interviews.

YEAR 4

TERM 1: FALL

CHEM 4910
Inorganic Chemistry
3 CREDIT HOURS

CHEM ELECTIVE
3000 or 4000 level course
3 CREDIT HOURS

ELECTIVE
3000 or 4000 level course
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

TERM 2: SPRING

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

ELECTIVE
3000/4000 Level Course
3 CREDIT HOURS

ELECTIVE
3000/4000 Level Course
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

ELECTIVE
3 CREDIT HOURS

TAKE 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, resume, application, and interviews.

TERM 2: SPRING

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
• Graduate from the chemistry program.
• Take senior seminar and 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
• Graduate from the chemistry program.
• Take senior seminar and capstone course(s) and complete a senior project.
• Complete all required courses for a degree.