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

A1: ENGL 1101
English Composition I
3 CREDIT HOURS

A2: MATH 1113
Precalculus
4 CREDIT HOURS

B2: XIDS 2002
First-Year Seminar
2 CREDIT HOURS

F: CHEM 1211 + LAB
Principles of Chemistry I
4 CREDIT HOURS

B1, C, OR E
3 CREDIT HOURS

MILESTONE:
• COMPLETE ENGL 1101, MATH 1113, CHEM 1211/1211L
  WITH C OR BETTER

TERM 2: SPRING

A1: ENGL 1102
English Composition II
3 CREDIT HOURS

D2: MATH 1634
Calculus I
4 CREDIT HOURS

F: CHEM 1212 + LAB
Principles of Chemistry II
4 CREDIT HOURS

B1, C, OR E
3 CREDIT HOURS

MILESTONE:
• COMPLETE ENGL 1102, MATH 1634 WITH C OR BETTER
  • COMPLETE CHEM 1212/1212L WITH B OR BETTER

TERM 1: FALL

F: CHEM 2411 + LAB
Organic Chemistry I
4 CREDIT HOURS

D1: PHYS 1111/2211 + LAB
Introductory or Principles of Physics I
4 CREDIT HOURS

CHEM 2130
Sophomore Chemistry Seminar
1 CREDIT HOUR

F: MATH 1401 OR 2644
Elementary Statistics or Calculus II
3/4 CREDIT HOURS

B1, C, OR E
3 CREDIT HOURS

MILESTONE:
• COMPLETE CHEM 2411 AND PHYS WITH C OR BETTER

TERM 2: SPRING

CHEM 3422 + LAB
Organic Chemistry II
4 CREDIT HOURS

D1: PHYS 1112/2212 + LAB
Introductory or Principles of Physics II
4 CREDIT HOURS

B1, C, OR E
3 CREDIT HOURS

MILESTONE:
• COMPLETE ORGANIC CHEMISTRY I AND II, PHYSICS I AND II
  WITH C OR BETTER

TERM 2: SPRING

CHEM 3422 + LAB
Organic Chemistry II
4 CREDIT HOURS

D1: PHYS 1112/2212 + LAB
Introductory or Principles of Physics II
4 CREDIT HOURS

B1, C, OR E
3 CREDIT HOURS

MILESTONE:
• COMPLETE ORGANIC CHEMISTRY I AND II, PHYSICS I AND II
  WITH C OR BETTER

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

CRUSH YOUR COURSEWORK
• Choose Concentration (ACS track recommended).

FIND YOUR PLACE
• Look at the Chemistry Careers page on the American Chemical Society’s webpage.

BROADEN YOUR PERSPECTIVES
• Sign up for Handshake through Career Services.

TAKE CARE OF YOURSELF
• Look at the Careers page on the American Chemical Society’s webpage.

PAVE YOUR PATH
15/16 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS
= 29/30 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
• 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 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

CRUSH YOUR COURSEWORK
• Connect with your faculty mentor.
• Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended).

FIND YOUR PLACE
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• Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended).

BROADEN YOUR PERSPECTIVES
• Explore internships or part-time jobs in career-related areas (industry, pharmacy, etc).
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TERM 1: FALL
CHEM 3310K
Analytical Chemistry 4 CREDIT HOURS
CHEM 3510
Survey of Physical Chemistry 3 CREDIT HOURS
B1, C, OR E
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
3000/4000 level course 3 CREDIT HOURS
ELECTIVE 3 CREDIT HOURS
B1, C, OR E
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 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
CHEM ELECTIVE
3000/4000 Level Course 3 CREDIT HOURS
ELECTIVE 3 CREDIT HOURS
ELECTIVE 3 CREDIT HOURS
ELECTIVE 3 CREDIT HOURS
15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 30 CREDIT HOURS

YEAR 3
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).
• 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 alumni guest speakers and make connections.

BROADEN YOUR PERSPECTIVES
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PAVE YOUR PATH
• Take Senior Seminar.
• Take senior capstone course(s) and complete a senior project.
• Complete all required courses for a degree.

YEAR 4
CRUSH YOUR COURSEWORK
• Attend program/department/college events.
• Attend on-campus conferences.
• Study and hang out in the student lounge (TLC 2116).

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

CONNECT OFF-CAMPUS
• Talk to alumni in a career field of interest, matched by your faculty mentor.
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TAKE CARE OF YOURSELF
• 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.

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TERM 2: SPRING
• Take Senior Seminar.
• Take senior capstone course(s) and complete a senior project.
• Complete all required courses for a degree.

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