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.

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

VISIT WOLFWATCH FOR MORE INFORMATION.

HAVE A QUESTION? CHECK IN WITH YOUR ADVISOR!

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

HONORS COLLEGE

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

CHEMISTRY

NON-ACS GENERAL TRACK / PHARMACY FOCUS / ALGEBRA START

Bachelor of Science

60 CORE CREDIT HOURS

48 MAJOR CREDIT HOURS

12 ELECTIVE CREDIT HOURS

UNIVERSITY OF WEST GEORGIA

2026-2027

YEAR 1

TERM 1: FALL

C1: ENGL 1101 — 3 CREDIT HOURS
English Composition I

MATH 1111 — 3 CREDIT HOURS
College Algebra

I2: XIDS 2002 — 2 CREDIT HOURS
First-Year Seminar

T1: BIOL 1107 + LAB — 4 CREDIT HOURS
Principles of Biology I

P2: POLS 1101 — 3 CREDIT HOURS
American Government

MILESTONE:
- **OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL**

TERM 2: SPRING

C2: ENGL 1102 — 3 CREDIT HOURS
English Composition II

M: MATH 1113 — 4 CREDIT HOURS
Precalculus

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

T2: BIOL 1108 + LAB — 4 CREDIT HOURS
Principles of Biology II

MILESTONE:
- **OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL**

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

CRUSH YOUR COURSEWORK
- **Choose Concentration (ACS track recommended).**

FIND YOUR PLACE
- **Connect with your faculty mentor.**
- **Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended).**

BROADEN YOUR PERSPECTIVES
- **Look at the Chemistry Careers page on the American Chemical Society's webpage.**

CONNECT OFF-CAMPUS
- **Sign up for Handshake through Career Services.**

TAKE CARE OF YOURSELF
- **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
- **Look at the Careers page on the American Chemical Society's webpage.**

YEAR 2

TERM 1: FALL

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

BIOL 2251 + LAB — 4 CREDIT HOURS
Human Anatomy and Physiology I

T3: MATH 1634 — 4 CREDIT HOURS
Calculus I

CORE IMPACTS A — 3 CREDIT HOURS

MILESTONE:
- **OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL**

TERM 2: SPRING

CHEM 3310K — 4 CREDIT HOURS
Analytical Chemistry

BIOL 2252 + LAB — 4 CREDIT HOURS
Human Anatomy and Physiology II

F: MATH 1401 — 3 CREDIT HOURS
Elementary Statistics

S2: ECON 2105 OR 2106 — 3 CREDIT HOURS
Principles of Macro or Microeconomics

CHEM 2130 — 1 CREDIT HOUR
Sophomore Chemistry Seminar

MILESTONES:
- **OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL**
- **ECON 2105 OR 2106 ARE REQUIRED FOR MANY PHARMACY SCHOOLS**

15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 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
- **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 3

TERM 1: FALL

CHEM 2411 + LAB — 4 CREDIT HOURS
Organic Chemistry I

BIOL 2260/2260L OR 3310 — 4 CREDIT HOURS
Foundations of Microbiology/Lab or Microbiology

CORE IMPACTS S1 OR P1 — 3 CREDIT HOURS
World or US History

ELECTIVE — 4 CREDIT HOURS
3000/4000 Level Course

MILESTONE:
- **OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL**

TERM 2: SPRING

CHEM 3422 + LAB — 4 CREDIT HOURS
Biochemistry

PHYS 1111 + LAB — 4 CREDIT HOURS
Introductory Physics I

I1: COMM 1110 — 3 CREDIT HOURS
Public Speaking

CORE IMPACTS S1 OR P1 — 3 CREDIT HOURS
World or US History

CORE IMPACTS A — 3 CREDIT HOURS

MILESTONE:
- **PUBLIC SPEAKING (COMM 1110) REQUIRED FOR MANY PHARMACY SCHOOLS**

15 FALL CREDIT HOURS + 17 SPRING CREDIT HOURS = 32 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

CHEM 4610 — 3 CREDIT HOURS
Inorganic Chemistry

CHEM 3510 — 3 CREDIT HOURS
Survey of Physical Chemistry

PHYS 1112 + LAB — 4 CREDIT HOURS
Introductory Physics II

CHEM ELECTIVE — 3 CREDIT HOURS
3000/4000 Level Course

CHEM 4908L — 2 CREDIT HOURS
Tools in Chemical Research

TERM 2: SPRING

CHEM 4909L — 1 CREDIT HOUR
CHEM Senior Capstone Research Project

CHEM 4084 — 1 CREDIT HOUR
Senior Seminar

CHEM ELECTIVE — 3 CREDIT HOURS
3000/4000 Level Course

ELECTIVE — 4 CREDIT HOURS
3000/4000 Level Course

ELECTIVE — 4 CREDIT HOURS
3000/4000 Level Course

CHEM 4711 — 3 CREDIT HOURS
Biochemistry

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

Additional Information:
- If a student plans to graduate in a fall semester, they will take Senior Seminar (CHEM 4084) in the fall semester. They would also have to join a research group and do research-for-credit (CHEM 4083) instead of taking CHEM 4909L. We recommend that they do at least 2 semesters of research to ensure they have enough material to write their capstone paper in Senior Seminar.

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, resume, application, and interviews.