

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 PROFESSIONAL PREPARATION TRACK / ALGEBRA START

Bachelor of Science

60

CORE CREDIT HOURS

39

MAJOR CREDIT HOURS

21

ELECTIVE CREDIT HOURS



UNIVERSITY OF WEST GEORGIA

2026-2027

TERM 1: FALL

C1: ENGL 1101 English Composition I	3 CREDIT HOURS
MATH 1111 College Algebra	3 CREDIT HOURS
I2: XIDS 2002 First-Year Seminar	2 CREDIT HOURS
BIOL 1107/1107L Principles of Biology I + Lab	4 CREDIT HOURS
P: POLS 1101 American Government	3 CREDIT HOURS

MILESTONE:
 • OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR MEDICAL SCHOOL

TERM 2: SPRING

C2: ENGL 1102 English Composition II	3 CREDIT HOURS
M: MATH 1113 Precalculus	4 CREDIT HOURS
F: CHEM 1211 + LAB Principles of Chemistry I	4 CREDIT HOURS
BIOL 1108/1108L Principles of Biology II + Lab	4 CREDIT HOURS

MILESTONE:
 • OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR MEDICAL 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.

TERM 1: FALL

F: CHEM 1212 + LAB Principles of Chemistry II	4 CREDIT HOURS
I1: PHIL 2020 Critical Thinking	3 CREDIT HOURS
T2: MATH 1634 Calculus I	4 CREDIT HOURS
S2: PSYC 1101/SOCI 1101 Introduction to General Psychology or Introductory Sociology	3 CREDIT HOURS

TERM 2: SPRING

CHEM 2411 + LAB Organic Chemistry I	4 CREDIT HOURS
CHEM 2130 Sophomore Chemistry Seminar	1 CREDIT HOUR
PSYC OR SOCI ELECTIVE 3000 or 4000 level course	4 CREDIT HOURS
BIOL ELECTIVE 3000 or 4000 level course	4 CREDIT HOURS

TERM 3: SUMMER

CHEM 3422 + LAB Organic Chemistry II	4 CREDIT HOURS
CORE IMPACTS P1 OR S1 US or World History	3 CREDIT HOURS

14 FALL CREDIT HOURS + 13 SPRING CREDIT HOURS + 7 SUMMER CREDIT HOURS = 34 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).

TERM 1: FALL

CHEM 3310K 4 CREDIT HOURS
Analytical Chemistry

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

MATH 1401 OR 2644 3 CREDIT HOURS
Structure & Bonding (Can be taken in Fall of Year 4)

BIOL ELECTIVE 3 CREDIT HOURS
3000 or 4000 level BIOL course

- MILESTONES:**
- BIOLOGY ELECTIVES CAN BE TAKEN IN ANY ORDER, BUT NEED TO BE TAKEN BEFORE ATTEMPTING THE MCAT.
 - CHEM 3422+L AND CHEM 3310K MUST BE COMPLETED WITH A C OR BETTER BEFORE TAKING CHEM 4711

TERM 2: SPRING

CHEM 4711 4 CREDIT HOURS
Biochemistry

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

BIOL ELECTIVE 4 CREDIT HOURS
3000 or 4000 level BIOL course

A: LITERATURE CLASS 3 CREDIT HOURS

- MILESTONES:**
- BIOLOGY ELECTIVES CAN BE TAKEN IN ANY ORDER, BUT NEED TO BE TAKEN BEFORE ATTEMPTING THE MCAT.
 - TAKE MCAT IN SUMMER BETWEEN YEARS 3 & 4

14 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 28 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).

TERM 1: FALL

CHEM 4908L 2 CREDIT HOURS
Tools in Chemical Research

CHEM 3510 3 CREDIT HOURS
Survey of Physical Chemistry

CHEM 4610 3 CREDIT HOURS
Inorganic Chemistry

CHEM ELECTIVE 3 CREDIT HOURS
3000 or 4000 level CHEM course

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

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

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 or 4000 level CHEM course

CORE IMPACTS A 3 CREDIT HOUR

ELECTIVE 3 CREDIT HOURS

ELECTIVE 3 CREDIT HOURS

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

14 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 28 CREDIT HOURS

- **Recommended Biology Electives:** Cell and Molecular Biology, Human Physiology, Genetics, Microbiology. Recommended Psychology Electives: Human Growth & Development, Social Psychology, Abnormal Psychology.
- This program map was developed for Medical School. The courses in the first three years have been laid out to prepare students for the MCAT. The MCAT should be taken in the summer after Year 3.
- 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.
- This program map can be adapted for other professional programs (etc. Dental, Vet, Physician's Assistant, Anesthesiology Assistant or Physical Therapy programs). See an advisor to discuss changes.

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.