CHEMISTRY

NON-ACS GENERAL TRACK / ALGEBRA START

Bachelor of Science

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.

60 CORE CREDIT HOURS

27 MAJOR CREDIT HOURS

36 ELECTIVE CREDIT HOURS

VISIT WOLFWATCH FOR MORE INFORMATION.

HAVE A QUESTION? CHECK IN WITH YOUR ADVISOR!

UNIVERSITY OF WEST GEORGIA

2023-2024

YEAR 1

TERM 1: FALL

A1: ENGL 1101 — 3 CREDIT HOURS
English Composition I

MATH 1111 — 3 CREDIT HOURS
College Algebra

B2: XIDS 2002 — 2 CREDIT HOURS
First-Year Seminar

B1, C, OR E — 3 CREDIT HOURS

B1, C, OR E — 3 CREDIT HOURS

MILESTONE:
- COMPLETE ENGL 1101 AND MATH 1111 WITH C OR BETTER

TERM 2: SPRING

A1: ENGL 1102 — 3 CREDIT HOURS
English Composition II

A2: MATH 1113 — 4 CREDIT HOURS
Precalculus

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

B1, C, OR E — 3 CREDIT HOURS

MILESTONE:
- COMPLETE ENGL 1102 AND CHEM 1211 WITH C OR BETTER

TERM 3: SUMMER

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

E1 OR E2 — 3 CREDIT HOURS
World or US History

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

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 2411 + LAB — 4 CREDIT HOURS
Organic Chemistry I

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

D2: MATH 1634 — 4 CREDIT HOURS
Calculus I

B1, C, OR E — 3 CREDIT HOURS

MILESTONE:
- COMPLETE MATH 1634, CHEM 2411, AND PHYS 1111/2211 WITH C OR BETTER

TERM 2: SPRING

CHEM 3422 + LAB — 4 CREDIT HOURS
Organic Chemistry II

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

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

CHEM 2130 — 1 CREDIT HOUR
Sophomore Chemistry Seminar

B1, C, OR E — 3 CREDIT HOURS

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

15 FALL CREDIT HOURS + 15/16 SPRING CREDIT HOURS = 30/31 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 3310K — 4 CREDIT HOURS
Analytical Chemistry

CHEM 3510 — 3 CREDIT HOURS
Survey of Physical Chemistry

B1, C, OR E — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

MILESTONE:
- COMPLETE CHEM 3310K WITH C OR BETTER

TERM 2: SPRING

CHEM 4711 — 3 CREDIT HOURS
Biochemistry

CHEM ELECTIVE — 3 CREDIT HOURS
3000/4000 level course

ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

13 FALL CREDIT HOURS + 15 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).

YEAR 4

TERM 1: FALL

CHEM 4610 — 3 CREDIT HOURS
Inorganic Chemistry

CHEM ELECTIVE — 3 CREDIT HOURS
3000/4000 Level Course

ELECTIVE — 3 CREDIT HOURS
3000/4000 Level Course

ELECTIVE — 3 CREDIT HOURS
3000/4000 Level Course

ELECTIVE — 3 CREDIT HOURS

TERM 2: SPRING

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

ELECTIVE — 3 CREDIT HOURS
3000/4000 Level Course

ELECTIVE — 3 CREDIT HOURS
3000/4000 Level Course

ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

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

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.