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

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

Visit westga.edu/program-maps for the latest version of this major map.
YEAR 1

TERM 1: FALL

C1: ENGL 1101
English Composition I
Term Hours: 3

MATH 1111
College Algebra
Term Hours: 3

T1: BIOL 1107 + LAB
Principles of Biology I
Term Hours: 4

C2: ENGL 1102
English Composition II
Term Hours: 3

M: MATH 1113
Precalculus
Term Hours: 4

F: CHEM 1211 + LAB
Principles of Chemistry I
Term Hours: 4

T2: BIOL 1108 + LAB
Principles of Biology II
Term Hours: 4

BROADEN YOUR PERSPECTIVES

• Choose Concentration (ACS track recommended).

TERM 2: SPRING

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

C2: ENGL 1102
English Composition II
Term Hours: 3

M: MATH 1113
Precalculus
Term Hours: 4

F: CHEM 1211 + LAB
Principles of Chemistry I
Term Hours: 4

T2: BIOL 1108 + LAB
Principles of Biology II
Term Hours: 4

BROADEN YOUR PERSPECTIVES

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

TERM 3: SUMMER

F: CHEM 1212 + LAB
Principles of Chemistry II
Term Hours: 4

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

15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS + 4 SUMMER CREDIT HOURS = 34 CREDIT HOURS

YEAR 2

TERM 1: FALL

F: CHEM 2411 + LAB
Organic Chemistry I
Term Hours: 4

BIOL 2251 + LAB
Human Anatomy and Physiology I
Term Hours: 4

CHEM 2130
Organic Chemistry I
Term Hours: 1

T3: MATH 1634
Calculus I
Term Hours: 4

BROADEN YOUR PERSPECTIVES

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

TERM 2: SPRING

MILESTONE:
• OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL
• COMPLETE CHEM 3422 WITH C OR BETTER
• ECON 2105 OR 2106 ARE REQUIRED FOR MANY PHARMACY SCHOOLS

CHEM 3422 + LAB
Organic Chemistry II
Term Hours: 4

BIOL 2252 + LAB
Human Anatomy and Physiology II
Term Hours: 4

F: MATH 1401
Elementary Statistics
Term Hours: 3

S2: ECON 2105 OR 2106
Principles of Macro- or Microeconomics
Term Hours: 3

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.

TERM 3: SUMMER

MILESTONE:
• COMPLETE CHEMISTRY II WITH B OR BETTER TO REMAIN ON TRACK

F: CHEM 1212 + LAB
Principles of Chemistry II
Term Hours: 4

PAVE YOUR PATH

• Look at the CAREERs page on the American Chemical Society’s webpage.

13 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 27 CREDIT HOURS
TERM 1: FALL

CHEM 3310K
Analytical Chemistry 4 CREDIT HOURS

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

A: HUMANITIES 3 CREDIT HOURS

P: CITIZENSHIP 3 CREDIT HOURS

MILESTONES:
• Overall A or better grades highly desirable to be competitive for pharmacy school.
• CHEM 3310K may be taken summer after Year 2.

YEAR 3

TERM 1: FALL

P: HUMANITIES 4 CREDIT HOURS

S1: TECHNICAL 3 CREDIT HOURS

TERM 2: SPRING

CHEM 4711
Biochemistry 3 CREDIT HOURS

PHYS 1111 + LAB
Introductory Physics I 4 CREDIT HOURS

I1: COMM 1110
Public Speaking 3 CREDIT HOURS

S1: SOCIAL SCIENCE 3 CREDIT HOURS

P: CITIZENSHIP 3 CREDIT HOURS

MILESTONES:
• Take Sophomore Seminar.
• Complete Organic Chemistry sequence.
• Complete Analytical Chemistry.
• Complete other supporting courses (see Advisor to have a clear roadmap).

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
3000/4000 Level Course 3 CREDIT HOURS

TERM 3

TERM 1: FALL

CHEM 4610
Inorganic Chemistry 3 CREDIT HOURS

CHEM 3510
Survey of Physical Chemistry 3 CREDIT HOURS

PHYS 1112 + LAB
Introductory Physics II 4 CREDIT HOURS

CHEM ELECTIVE
3000/4000 Level Course 3 CREDIT HOURS

ELECTIVE
3000/4000 Level Course 3 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
3000/4000 Level Course 3 CREDIT HOURS

TERM 4

TERM 1: FALL

CHEM 5110
Physical Chemistry 3 CREDIT HOURS

CHEM ELECTIVE
3000/4000 Level Course 3 CREDIT HOURS

ELECTIVE
3000/4000 Level Course 3 CREDIT HOURS

TERM 2: SPRING

CHEM ELECTIVE
3000/4000 Level Course 3 CREDIT HOURS

ELECTIVE
3000/4000 Level Course 3 CREDIT HOURS

YEAR 4