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!
**YEAR 1**

**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

- **A:** HUMANITIES
  - 3 credit hours

- **I1:** ORAL COMMUNICATIONS
  - 3 credit hours

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

**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

- **A:** HUMANITIES
  - 3 credit hours

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

**TERM 3: SUMMER**

- **F:** CHEM 1212 + LAB
  - Principles of Chemistry II
  - 4 credit hours

- **S1 OR P1**
  - World or U.S. History
  - 3 credit hours

**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.

**PAVE YOUR PATH**
- Look at the Careers page on the American Chemical Society’s webpage.

**YEAR 2**

**TERM 1: FALL**

- **F:** CHEM 2411 + LAB
  - Organic Chemistry I
  - 4 credit hours

- **T1:** PHYS 1111/2211 + LAB
  - Introductory or Principles of Physics I
  - 4 credit hours

- **T2:** MATH 1634
  - Calculus I
  - 4 credit hours

- **P:** CITIZENSHIP
  - 3 credit hours

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

**TERM 2: SPRING**

- **CHEM 3422 + LAB**
  - Organic Chemistry II
  - 4 credit hours

- **T2:** PHYS 1112/2212 + LAB
  - Introductory or Principles of Physics II
  - 4 credit hours

- **F:** MATH 1401 OR 2644
  - Elementary Statistics or Calculus II
  - 3/4 credit hours

- **CHEM 2130**
  - Sophomore Chemistry Seminar
  - 1 credit hour

- **S:** SOCIAL SCIENCE
  - 3 credit hours

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

**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 NSF 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.

**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
Analytical Chemistry
4
CREDIT HOURS

CHEM 3510
Survey of Physical Chemistry
3
CREDIT HOURS

S1 OR P1
World or US History
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

TERM 2: SPRING
CHEM 4711
Biochemistry
3
CREDIT HOURS

CHEM ELECTIVE
3000/4000 level course
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

TERM 1: FALL
CHEM 4610
Inorganic Chemistry
3
CREDIT HOURS

CHEM ELECTIVE
3000/4000 Level Course
3
CREDIT HOURS

ELECTIVE
3000/4000 Level Course
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

TERM 2: SPRING
CHEM 4910L
Tools and Applications in Chemical Research and Practice
3
CREDIT HOURS

ELECTIVE
3000/4000 Level Course
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

13 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 28 CREDIT HOURS

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

YEAR 4

YEAR 3

MILESTONE:
• COMPLETE CHEM 3310K WITH C OR BETTER

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).

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.

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
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PAVE YOUR PATH
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CHEM 3310K
Analytical Chemistry
4
CREDIT HOURS

CHEM 3510
Survey of Physical Chemistry
3
CREDIT HOURS

S1 OR P1
World or US History
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

TERM 2: SPRING
CHEM 4711
Biochemistry
3
CREDIT HOURS

CHEM ELECTIVE
3000/4000 level course
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

TERM 1: FALL
CHEM 4610
Inorganic Chemistry
3
CREDIT HOURS

CHEM ELECTIVE
3000/4000 Level Course
3
CREDIT HOURS

ELECTIVE
3000/4000 Level Course
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

TERM 2: SPRING
CHEM 4910L
Tools and Applications in Chemical Research and Practice
3
CREDIT HOURS

ELECTIVE
3000/4000 Level Course
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

ELECTIVE
3
CREDIT HOURS

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