ABOUT THE MAJOR

The B.S. in Chemistry degree offers greater concentration in chemistry than the B.A. degree option and is recommended for those students planning careers in chemical industry or engineering or for those who plan to pursue graduate study. A senior research thesis and seminar is required and designed to introduce students to modern advanced techniques and approaches to chemical research in conjunction with a faculty advisor. The Bachelor of Science with a Major in Chemistry degree (ACS Track) is approved by the Committee on Professional Training of the American Chemical Society (ACS). This formal recognition means that the department has the faculty, curriculum and the instrumentation necessary to provide a quality education for undergraduate students. Graduates of this approved program are certified by the American Chemical Society.

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.



VISIT WOLFWATCH FOR MORE INFORMATION.



HAVE A QUESTION? CHECK IN WITH YOUR ADVISOR!

HONORS COLLEGE

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



CHEMISTRY

ACS GENERAL TRACK / PRECALCULUS START

Bachelor of Science

60 00

CORE CREDIT HOURS

42

MAJOR CREDIT HOURS

18

ELECTIVE CREDIT HOURS



TERM 1: FALL

C1: ENGL 1101 English Composition I	3 CREDIT HOURS
M: MATH 1113 Precalculus	4 CREDIT HOURS
12: XIDS 2002 First-Year Seminar	2 CREDIT HOURS
F: CHEM 1211 + LAB Principles of Chemistry I	4 CREDIT HOURS
11: ORAL COMMUNICATIONS	3 CREDIT HOURS

- COMPLETE ENGL 1101 WITH C OR BETTER.
 COMPLETE MATH 1113 AND CHEM 1211 WITH C OR

TERM 2: SPRING

3 CREDIT HOURS

A: HUMANITIES	3 CREDIT HOURS
F: CHEM 1212 + LAB Principles of Chemistry II	4 CREDIT HOURS
T3: MATH 1634 Calculus I	4 CREDIT HOURS
English Composition II	

C2: ENGL 1102

- COMPLETE ENGL 1102 WITH C OR BETTER
- COMPLETE CHEMISTRY II WITH B OR BETTER

16 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 30 CREDIT HOURS

• Choose Concentration (ACS track recommended). CRUSH YOUR COURSEWORK • Connect with your faculty mentor. Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended). FIND YOUR PLACE BROADEN YOUR PERSPECTIVES • Look at the Chemistry Careers page on the American Chemical Society's webpage. • Sign up for Handshake through Career Services. CONNECT OFF-CAMPUS Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center. TAKE CARE OF YOURSELF Find study buddies. Go to events, have fun (balance time between study, work, and fun). . Look at the Careers page on the American Chemical PAVE YOUR Path Society's webpage.

TERM 1: FALL

3

YEAR

F: CHEM 2411 + LAB Organic Chemistry I	4 CREDIT HOURS
F: MATH 2644 Calculus II	4 CREDIT HOURS
CHEM 2130 Sophomore Chemistry Seminar	1 CREDIT HOUR
T1: PHYS 2211 + LAB Introductory Principles of Physics I	4 CREDIT HOURS
P: CITIZENSHIP	3 CREDIT HOURS
MII ESTONE:	

EXPLORE RESEARCH PROJECTS/PROFESSORS

CHEM 3422 + LAB Organic Chemistry II	4 CREDIT HOURS
T2: PHYS 2212 + LAB ntroductory Principles of Physics II	4 CREDIT HOURS
S: SOCIAL SCIENCE	3 CREDIT HOURS
ELECTIVE	3 CREDIT HOURS
MILESTONE: COMPLETE ORGANIC II AND PHYSICS I YEAR 2.	I BY THE END OF

16 FALL CREDIT HOURS + 14 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 oncampus conferences.
- Study and hang out in the student lounge (TLC) 2116).

BROADEN YOUR PERSPECTIVES

- Explore internships or part-time jobs in careerrelated 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

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,

TERM 1: FALL

CHEM 3310K Analytical Chemistry	4 CREDIT HOURS
CHEM 35XX Physical Chemistry (see note below)	3 CREDIT HOURS
CHEM 4083 Faculty Directed Research	1 CREDIT HOUR
A: HUMANITIES	3 CREDIT HOURS

MILESTONE:

ELECTIVE

• CHEM 3310K MAY BE TAKEN IN YEAR 2 SUMMER

TERM 2: SPRING

CHEM 4711 Biochemistry	3 CREDIT HOURS
CHEM 4330K Instrumental Analysis	4 CREDIT HOURS
CHEM 35XX Physical Chemistry (see note below)	3 CREDIT HOURS
CHEM 4083 Faculty Directed Research	1 CREDIT HOUR
ELECTIVE	3 CREDIT HOURS
MILESTONE:	

COMPLETE TWO SEMESTERS CHEM 4083

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

Additional Information:

- Physical Chemistry Courses: Anywhere you see 35XX above, students can choose between Quantum Chemistry, Chemical Thermodynamics, and Structure, Bonding, & Reactivity with advisor approval/advice.
- All Other Electives: Math and Science Electives are preferred. Students should work with their advisor to choose electives that will support and

Take Sophomore Seminar. Complete Organic Chemistry sequence. Complete Analytical Chemistry.

- Complete other supporting courses (see Advisor to have a clear roadmap).

FIND YOUR PLACE

CRUSH YOUR COURSEWORK

- Join a research group or seek for student employment (workshop leader, laboratory assistant).
- Attend program/department/college events.Attend senior research presentations and oncampus conferences.
- Study and hang out in the student lounge (TLC) 2116).

BROADEN YOUR PERSPECTIVES

. Explore internships or part-time jobs in careerrelated 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.

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- Talk to alumni guest speakers and make

TAKE CARE OF YOURSELF

- Talk to your faculty mentor.
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PAVE YOUR

- . Write preliminary resume.
- Seek for resume-building opportunities related to your career goal (employment, research, activities,

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TERM 1: FALL

CHEM 4610 Inorganic Chemistry	3 CREDIT HOURS
CHEM 3550L Physical Chemistry Lab	2 CREDIT HOURS
CHEM 4083 Faculty Directed Research	1 CREDIT HOUR
ELECTIVE	4 CREDIT HOURS
CHEM ELECTIVE	3 CREDIT HOURS
P: CITIZENSHIP	3 CREDIT HOURS

TERM 2: SPRING

CREDIT

Advanced Synthesis Laboratory	∠ HOURS
CHEM 4084 Senior Seminar	1 CREDIT HOUR
CHEM 4083 Faculty Directed Research	1 CREDIT HOUR
S: SOCIAL SCIENCE	3 CREDIT HOURS
CHEM ELECTIVE	3 CREDIT HOURS
ELECTIVE	3 CREDIT HOURS
ELECTIVE	3 CREDIT HOURS

MILESTONES:

CHEM 1013

- COMPLETE 4 CREDIT HOURS OF RESEARCH (CHEM 4083)
- COMPLETE THESIS AND ORAL PRESENTATION (CHEM 4084)

16 FALL CREDIT HOURS + 16 SPRING CREDIT HOURS = 32 CREDIT HOURS

- Additional Information:

 For Chemistry Electives: Students are required to choose from: Advanced Organic, Spectroscopy, Materials Chemistry, Green Chemistry, and Physical
- All Other Electives: Math and Science Electives are preferred. Students should work with their advisor to choose electives that will support and complement their life goals.

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

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
- . Make sure to get help from Career Services for cover letters, resume, application, and interviews.