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. This option prepares chemistry majors to become a secondary education chemistry teacher. The undergraduate curriculum equips students with the content knowledge of chemistry as well as leadership skills, scientific communication skills, and literacy in diversity and technology applicable to educational settings. The curriculum prepares students for the GACE (Georgia Assessments for the Certification of Educators) exam.

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?

- Chemical Industry
- Educator
- Environmental Studies
- Industrial Hygiene
- Patent Law
- Technical Sales

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

NON-ACS TRACK / SECONDARY EDUCATION OPTION / ALGEBRA START

Bachelor of Science

60

CORE CREDIT HOURS

45

MAJOR CREDIT HOURS

15

ELECTIVE CREDIT HOURS

TERM 1: FALL

3 CREDIT HOURS **English Composition I**

MATH 1111 College Algebra

3 CREDIT HOURS

12: XIDS 2002 First-Year Seminar

1121/L or GEOL 1122/L

2 CREDIT HOURS

INTRO SCIENCE + LAB Students should take either BIOL1107/L, GEOL 4 CREDIT HOURS

CORE IMPACTS I, A, S, OR P

• Connect with your faculty mentor.

Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended).

Choose Concentration (ACS track recommended).

MILESTONES:

- COMPLETE ENGL 1101 WITH C OR BETTER.
- COMPLETE MATH 1111 WITH C OR BETTER

TERM 2: SPRING

3 CREDIT HOURS **C2:** ENGL 1102 **English Composition II**

M: MATH 1113 Precalculus

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

CORE IMPACTS I, A, S, OR P

- COMPLETE ENGL 1102 WITH C OR BETTER
- COMPLETE MATH 1113 AND CHEM 1211/1211L B OR **BETTER FOR CHEM 2086**

15 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 29 CREDIT HOURS

BROADEN YOUR PERSPECTIVES

CRUSH YOUR COURSEWORK

FIND YOUR PLACE

American Chemical Society's webpage.

• Look at the Chemistry Careers page on the

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.

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TERM 1: FALL

F: CHEM 1212 + LAB Principles of Chemistry II	4 CREDIT HOURS
T: MATH 1634 Calculus I	4 CREDIT HOURS
CHEM 2086 Chemistry Leadership Practicum*	1 CREDIT HOUR
CORE IMPACTS I, A, S, OR P	3 CREDIT HOURS
CORE IMPACTS I, A, S, OR P	3 CREDIT HOURS

MILESTONES:

- COMPLETE CHEM 1212/1212L B OR BETTER
- COMPLETE MATH 1634 C OR BETTER
- * CHEM 2086 MUST BE HIRED AS A WORKSHOP LEADER OR LABORATORY ASSISTANT TO TAKE THIS COURSE. CAN BE TAKEN IN A LATER SEMESTER.

TERM 2: SPRING

CHEM 3410K Analytical Chemistry	4 CREDIT HOURS
T: PHYS 1111/2211 + LAB Introductory Physics I or Principles of Physics I	4 CREDIT HOURS
F: MATH 1401 OR 2644 Elementary Statistics or Calculus II*	3 CREDIT HOURS
CHEM 2130 Sophomore Chemistry Seminar	1 CREDIT HOUR
CORE IMPACTS I, A, S, OR P	3 CREDIT HOURS

MILESTONE:

- COMPLETE CHEM 3310K AND PHYS C OR BETTER
- * IF STUDENTS TAKE MATH 2644, THEY CAN TAKE PHYS 2212+L

15 FALL CREDIT HOURS + 15 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
- 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

片 TAKE CARE (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

F: CHEM 2411 + LAB Organic Chemistry I + Lab	4 CREDIT HOURS
T: PHYS 1112/2212 + LAB Introductory Physics II or Principles of Physics II	4 CREDIT HOURS
MEDT 2501 Multiple Literacies for Ed (10 hours field experience)	3 CREDIT HOURS

ELECTIVE

MILESTONE:

• COMPLETE CHEM 2411/2411L AND PHYS C OR BETTER

3 CREDIT HOURS

TERM 2: SPRING

4 CREDIT HOURS
3 CREDIT
3 CREDIT
3 CREDIT
3 CREDIT

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

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
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PAVE YOUR Path

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

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IERWI 1: FALL	
CHEM 4610 Inorganic Chemistry	3 CREDIT HOURS
CHEM 3510 Survey of Physical Chemistry	3 CREDIT HOURS
CHEM 4908L Tools in Chemical Research	2 CREDIT HOUR
CHEM COURSE CHEM 3000 or 4000 level Elective	3 CREDIT HOURS
ELECTIVE Elective 3000 or 4000 level course	3 CREDIT HOURS
ELECTIVE Elective 3000 or 4000 level course	3 CREDIT HOURS
MILEGIONEO.	

MILESTONES:

- MUST HAVE COMPLETED AT LEAST 24 CREDIT HOURS AT A 3XXX/4XXX LEVEL
- SUBMIT APPLICATION FOR GRAD SCHOOL; PASS OR **EXEMPT GACE PROGRAM ADMISSION & ETHICS EXAM**

TERM 2: SPRING

CHEM 4711 Biochemistry	3 CREDIT HOURS
CHEM 4084 Senior Seminar	1 CREDIT HOUR
CHEM 4909L Chemistry Senior Capstone Project	1 CREDIT HOUR
CHEM 4411/5411* Scientific Communication (cross-listed)	3 CREDIT HOURS
ELECTIVE Elective 3000 or 4000 level course	3 CREDIT HOURS
ELECTIVE	3 CREDIT HOURS
MILESTONES: • SUBMIT APPLICATION FOR TEACHER EDUCATION	ON

- ADMISSION, PASS GACE CONTENT EXAM, PASS GACE BROAD FIELD SCIENCE EXAM
- * FOR ACCELERATED MAT CHEM 5411 SHOULD BE TAKEN

17 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 31 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.

• Attend program/department/college events. Attend on-campus conferences. Study and hang out in the student lounge (TLC

FIND YOUR PLACE

BROADEN YOUR PERSPECTIVES • Re-examine career paths with a chemistry degree (ACS Career page, alumni connections, your own aptitude and interest).

• Talk to alumni in a career field of interest, matched by your faculty mentor.

TAKE CARE OF YOURSELF

CONNECT OFF-CAMPUS

- 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.