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 / PRECALC START

Bachelor of Science

60

CORE CREDIT HOURS

45

MAJOR CREDIT HOURS

15

ELECTIVE CREDIT HOURS

~	
4	
>	

TERM 1: FALL

C1: ENGL 1101 English Composition I	3 CREDIT HOURS
M: MATH 1113 Precalculus	4 CREDIT HOURS
I2: XIDS 2002 First-Year Seminar	2 CREDIT HOURS
F: CHEM 1211 + LAB Principles of Chemistry I	4 CREDIT HOURS
CORE IMPACTS I, A, S, OR P	3 CREDIT HOURS
MILESTONES:	

- COMPLETE ENGL 1101 C OR BETTER
- COMPLETE MATH 1113 AND CHEM 1211/1211L B OR **BETTER FOR CHEM 2086**

TERM 2: SPRING

3 CREDIT HOURS

CORE IMPACTS I, A, S, OR P	3 CREDIT HOURS
F: CHEM 1212 + LAB Principles of Chemistry II	4 CREDIT HOURS
T: MATH 1634 Calculus I	4 CREDIT HOURS
Litgiisti Composition II	

C2: ENGL 1102

English Composition II

- COMPLETE ENGL 1102 AND MATH 1634 C OR BETTER
- COMPLETE CHEM 1212/1212L B OR BETTER

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

PAVE YOUR Path

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

Society's webpage.

EAR

3

TERM 1: FALL

F: CHEM 2411 + LAB Organic Chemistry I + Lab	4 CREDIT HOURS
T: PHYS1111/2211 + LAB Introductory Physics I or Principles of Physics I	4 CREDIT HOURS
CHEM 2086 Chemistry Leadership Practicum*	1 CREDIT HOUR
MATH 1401 Elementary Statistics	3 CREDIT HOURS
CORE IMPACTS I, A, S, OR P	3 CREDIT HOURS

MILESTONES:

- COMPLETE CHEM 2411 AND PHYS 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 3422 + LAB Organic Chemistry II	4 CREDIT HOURS
T: PHYS 1112/2212 + LAB Introductory Physics II or Principles of Physics II	4 CREDIT HOURS
CHEM 2130 Sophomore Chemistry Seminar	1 CREDIT HOURS
CORE IMPACTS I, A, S, OR P	3 CREDIT HOURS
CORE IMPACTS I, A, S, OR P	3 CREDIT HOURS
MILECTONE.	

MILESTONE:

 COMPLETE ORGANIC CHEMISTRY I AND II, PHYSICS I AND II C OR BETTER

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

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 4 CREDIT HOURS Analytical Chemistry 3 CREDIT HOURS **CHEM 3510*** Survey of Physical Chemistry

MEDT 2501 Multiple Literacies for Ed (10 hours field experience)

CORE IMPACTS I, A, S, OR P 3 CREDIT HOURS

3 CREDIT HOURS **ELECTIVE**

MILESTONE:

- COMPLETE CHEM 3310K C OR BETTER
- * CHEM 3510 MAY BE TAKEN IN YEAR 4

TERM 2: SPRING

3 CREDIT HOURS **CHEM 4711** Biochemistry 3 CREDIT HOURS **CHEM COURSE** CHEM 3000 or 4000 level Elective **EDUC 2120** 3 CREDIT HOURS Exper. Sociocult. Perspect. Diversity in Edc Contexts (10 hours field experience) 4 CREDIT HOURS **INTRO SCIENCE + LAB** Take either BIOL1107+L, GEOL 1121+L or GEOL **CORE IMPACTS I, A, S, OR P**

• 3.20 GPA IS REQUIRED FOR ACCELERATED MAT PROGRAM

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

CRUSH YOUR COURSEWORK Complete Organic Chemistry sequence. Complete Analytical Chemistry.

- Take Sophomore Seminar.

- 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.

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 - 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 4610 Inorganic 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

MILESTONES:

T

EAR

- 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 4084 Senior Seminar	1 CREDIT HOUR
CHEM 4909L Chemistry Senior Capsto	1 CREDIT HOUR
CHEM 4411/5 Scientific Communication	
ELECTIVE Elective 3000 or 4000 le	3 CREDIT HOURS
ELECTIVE Elective 3000 or 4000 le	3 CREDIT HOURS
ELECTIVE	3 CREDIT HOURS
	ON FOR TEACHER EDUCATION

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

14 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 28 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

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

CONNECT OFF-CAMPUS

BROADEN YOUR PERSPECTIVES

• 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.