ABOUT THE MAJOR

This degree option is frequently the choice of students interested in professional programs because it allows a wide range of elective courses to fulfill the degree requirements. It is designed specifically for those students planning to attend medical, dental, veterinary, physician’s assistant, or other professional programs. The general requirements include 2 years of Chemistry and 1 year each of Biology, Physics, and English, 1 semester Psychology/Sociology. Biochemistry is strongly recommended. Combining this degree with a minor or second major prepares students for a laboratory positions and a variety of career opportunities that include: with business - technical sales; with engineering - chemical industry; with biology or geology - environmental studies or 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
- Data Analytics
- Forensic Sciences
- Stream Restoration
- Sustainable Business
- 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.

VISIT WOLFWATCH FOR MORE INFORMATION.

HAVE A QUESTION? CHECK IN WITH YOUR ADVISOR!

UNIVERSITY OF WEST GEORGIA

60
CORE CREDIT HOURS

54
MAJOR CREDIT HOURS

9
ELECTIVE CREDIT HOURS

WHERE CAN YOU GO WITH THIS DEGREE?

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UNIVERSITY OF WEST GEORGIA
### TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1: ENGL 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1111</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>I2: XIDS 2002</td>
<td>First-Year Seminar</td>
<td>2</td>
</tr>
<tr>
<td>P2: POLS 1101</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>T1: BIOL 1107 + LAB</td>
<td>Principles of Biology I</td>
<td>4</td>
</tr>
</tbody>
</table>

**MILESTONE:**
• Overall B or better grades highly desirable to be competitive for medical school

### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2: ENGL 1102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>M: MATH 1113</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>F: CHEM 1211 + LAB</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>T2: BIOL 1108 + LAB</td>
<td>Principles of Biology I</td>
<td>4</td>
</tr>
</tbody>
</table>

**MILESTONE:**
• Overall B or better grades highly desirable to be competitive for medical school

### TERM 3: SUMMER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: CHEM 1212 + LAB</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>S1 OR P1</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**MILESTONE:**
• CHEM 1212 grade of B or better required to move into Organic Chemistry

### YEAR 1

- **FALL:** 15 Credit Hours + 15 Spring Credit Hours + 7 Summer Credit Hours = 37 Credit Hours
- **SUMMER:** 15 Credit Hours + 14 Spring Credit Hours = 29 Credit Hours

### TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: CHEM 2411 + LAB</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>S2: PSY 1101 OR SOCI 1101</td>
<td>Intro to Psychology or Intro Sociology</td>
<td>3</td>
</tr>
<tr>
<td>T3: MATH 1634</td>
<td>Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

**MILESTONE:**
• Overall B or better grades highly desirable to be competitive for medical school

### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3422 + LAB</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>L1: PHIL 2020</td>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>F: MATH 1401 OR 2644</td>
<td>Elementary Statistics or Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL ELECTIVE</td>
<td>3000 or 4000 level course</td>
<td>4</td>
</tr>
</tbody>
</table>

**MILESTONE:**
• Overall B or better grades highly desirable to be competitive for medical school, recommended biology electives: Cell and Molecular Biology, Human Physiology, Genetics, Microbiology

### TERM 2: SPRING

- **FALL:** 15 Credit Hours + 14 Spring Credit Hours = 29 Credit Hours
- **SUMMER:** 15 Credit Hours + 14 Spring Credit Hours = 29 Credit Hours

### PAVE YOUR PATH

- Choose Concentration (ADS track recommended).
- Connect with your faculty mentor.
- Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended).
- Connect with your faculty mentor.
- Look at the Chemistry Careers page on the American Chemical Society’s webpage.

### TAKE CARE OF YOURSELF

- Look at the Careers page on the American Chemical Society’s webpage.
- 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).

### CRUSH YOUR COURSEWORK

- Complete Analytical Chemistry.
- Complete Organic Chemistry sequence.
- Complete other supporting courses (see Advisor to have a clear roadmap).
- 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.

### 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 on-campus conferences.
- Study and hang out in the student lounge (TLC 2116).
- Create an account in LinkedIn.
- Sign up for Handshake through Career Services.
- Talk to alumni guest speakers and make connections.

### CONNECT OFF-CAMPUS

- Seek for resume-building opportunities related to your career goal (employment, research, activities, volunteering).
- Talk to your faculty mentor.
- Go to events, have fun (balance time between study, work, and fun).
- Talk to alumni guest speakers and make connections.
- Write preliminary resume.
TERM 1: FALL

CHEM 3310K
Analytical Chemistry
4 CREDIT HOURS

PHYS 1111/2211 + LAB
Introductory or Principles of Physics I
4 CREDIT HOURS

Biol Elective
3000 or 4000 level course
3 CREDIT HOURS

PSYC OR SOCI Elective
3000 or 4000 level course
4 CREDIT HOURS

MILESTONES:
- BIOLOGY ELECTIVES CAN BE TAKEN IN ANY ORDER, BUT NEED TO BE TAKEN BEFORE ATTEMPTING THE MCAT.
- CHEM 3422+L AND CHEM 3310K MUST BE COMPLETED WITH C OR BETTER BEFORE 3RD YEAR CHEM 4711

TERM 2: SPRING

CHEM 4711
Biochemistry
3 CREDIT HOURS

PHYS 1112/2212 + LAB
Introductory or Principles of Physics II
4 CREDIT HOURS

Biol Elective
3000 or 4000 level course
4 CREDIT HOURS

A2: LITERATURE CLASS
3 CREDIT HOURS

MILESTONES:
- BIOLOGY ELECTIVES CAN BE TAKEN IN ANY ORDER, BUT NEED TO BE TAKEN BEFORE ATTEMPTING THE MCAT.
- TAKE MCAT

YEAR 3

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

TERM 1: FALL

CHEM 4610
Inorganic Chemistry
3 CREDIT HOURS

CHEM 3510
Survey of Physical Chemistry
3 CREDIT HOURS

CHEM Elective
3000 or 4000 level course
3 CREDIT HOURS

Elective
3000 or 4000 level course
3 CREDIT HOURS

A1: HUMANITIES
3 CREDIT HOURS

MILESTONE:
- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR MEDICAL SCHOOL

TERM 2: SPRING

CHEM 4910L
Tools and Applications in Chemical Research and Practice
3 CREDIT HOURS

CHEM Elective
3000 or 4000 level course
3 CREDIT HOURS

Elective
Supporting Courses: CS 1300 OR MATH OR SPAN
3 CREDIT HOURS

Elective
3 CREDIT HOURS

MILESTONE:
- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR MEDICAL SCHOOL

YEAR 4

15 FALL CREDIT HOURS + 12 SPRING CREDIT HOURS = 27 CREDIT HOURS

TERM 1: FALL

CRUSH YOUR COURSEWORK
- Take Sophomore Seminar.
- Complete Organic Chemistry sequence.
- Complete Analytical Chemistry.
- Complete other supporting courses (see Advisor to have a clear roadmap).

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 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.

BROADEN YOUR PERSPECTIVES
- Sign up for Handshake through Career Services.
- Create an account in LinkedIn.
- Talk to alumni guest speakers and make connections.

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).

TAKE CARE OF YOURSELF
- Write preliminary resume.
- Seek for resume-building opportunities related to your career goal (employment, research, activities, volunteering).

TAKE CARE OF YOURSELF
- Complete Analytical Chemistry.
- Complete Organic Chemistry.
- Take Sophomore Seminar.
- Complete Analytical Chemistry.
- Complete other supporting courses (see Advisor to have a clear roadmap).

TAKE CARE OF YOURSELF
- Update your resume or CV.
- Apply for graduate schools, professional school, or internships.
- Re-examine career paths with a chemistry degree (ACS Career page, alumü connections, your own aptitude and interest).

PAVE YOUR PATH
- 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 2116).
- Talk to alumni in a career field of interest, matched by your faculty mentor.
- 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
- Bold hands-on experience through research and/or internships.
- Update your resume or CV.
- Apply for graduate schools, professional school, or internships.
- Make sure to get help from Career Services for cover letters, resumes, application, and interviews.

PAVE YOUR PATH
- The program map was developed for Medical School. The courses in the first three years have been laid out to prepare students for the MCAT. The MCAT should be taken in the summer after Year 3.
- The major can be adapted for Dental, Vet, Physician’s Assistant, Anesthesiology Assistant or Physical Therapy programs. Please see an advisor.

Additional Information:
- Recommended Biology Electives: Cell and Molecular Biology, Human Anatomy & Physiology.
- Connect Off-Campus: Talk to alumni in a career field of interest, matched by your faculty mentor.

Additional Information:
- Biota of Biochemistry: Cell and Molecular Biology, Human Anatomy & Physiology.