### **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

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!

### **CHEMISTRY**

**NON-ACS GENERAL TRACK / PHARMACY FOCUS / PRECALCULUS START** 

Bachelor of Science

60

**CORE CREDIT HOURS** 

47

**MAJOR CREDIT HOURS** 

13

**ELECTIVE CREDIT HOURS** 



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### **TERM 1: FALL**

A1: ENGL 1101 English Composition I	3 CREDIT HOURS
A2: MATH 1113 Precalculus	4 CREDIT HOURS
B2: XIDS 2002 First-Year Seminar	2 CREDIT HOURS
F: CHEM 1211 + LAB Principles of Chemistry I	4 CREDIT HOURS
<b>C OR E</b> Humanities, Fine Arts, or Social Sciences	3 CREDIT HOURS

#### **MILESTONE:**

• OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO **BE COMPETITIVE FOR PHARMACY SCHOOL** 

### **TERM 2: SPRING**

2 CREDIT

English Composition II	HOURS
D2: MATH 1634 Calculus I	4 CREDIT HOURS
F: CHEM 1212 + LAB Principles of Chemistry II	4 CREDIT HOURS
D1: BIOL 1107 + LAB Principles of Biology I	4 CREDIT HOURS

#### **MILESTONES:**

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- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL
- COMPLETE CHEM 1212 WITH B OR BETTER

16 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 31 CREDIT HOURS

CRUSH YOU COURSEWO	
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.
TAKE CARE OF YOURSELF	<ul> <li>Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center.</li> <li>Find study buddies.</li> <li>Go to events, have fun (balance time between study, work, and fun).</li> </ul>
PAVE YOUR PATH	Look at the Careers page on the American Chemical Society's webpage.

. Choose Concentration (ACS track recommended).

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### **TERM 1: FALL**

YEAR

F: CHEM 2411 + LAB Organic Chemistry I	4 CREDIT HOURS
<b>D1: BIOL 1108 + LAB</b> Principles of Biology II	4 CREDIT HOURS
CHEM 2130 Sophomore Chemistry Seminar	1 CREDIT HOUR
F: MATH 1401 Elementary Statistics	3 CREDIT HOURS
B1: COMM 1110 Public Speaking	3 CREDIT HOURS

#### **MILESTONES:**

- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE **COMPETITIVE FOR PHARMACY SCHOOL**
- PUBLIC SPEAKING (COMM 1110) IS REQUIRED FOR MANY PHARMACY SCHOOLS

### TERM O. CRRING

TERM 2: SPRING	
CHEM 3422 + LAB Organic Chemistry II	4 CREDIT HOURS
BIOL 2251 + LAB Human Anatomy and Physiology I	4 CREDIT HOURS
E4: ECON 2105 OR 2106 Principles of Macroeconomics or Microeconomics	3 CREDIT HOURS
C OR E Humanities, Fine Arts, or Social Sciences	3 CREDIT HOURS

- SCHOOLS
- COMPLETE CHEM 3422 WITH C OR BETTER

15 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 29 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** 4 CREDIT HOURS Analytical Chemistry

4 CREDIT HOURS BIOL 2260/2260L OR 3310 Foundations of Microbiology/Lab or Microbiology

**BIOL 2252 + LAB** 4 CREDIT HOURS Human Anatomy and Physiology II

3 CREDIT HOURS C OR E

Humanities, Fine Arts, or Social Sciences

#### **MILESTONES:**

- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR PHARMACY SCHOOL
- CHEM 3310K MAY BE TAKEN SUMMER AFTER YEAR 2

### **TERM 2: SPRING**

Biochemistry	
PHYS 1111 + LAB Introductory Physics I	4 CREDIT HOURS
<b>C OR E</b> Humanities, Fine Arts, or Social Sciences	3 CREDIT HOURS
<b>C OR E</b> Humanities, Fine Arts, or Social Sciences	3 CREDIT HOURS
ELECTIVE	3 CREDIT HOURS

3000 or 4000 level course

**CHEM 4711** 

- COMPLETE 70-90 HOURS BASED ON DESIRED PHARMACY SCHOOL
- TAKE PCAT

15 FALL CREDIT HOURS + 16 SPRING CREDIT HOURS = 31 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.

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- 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,

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### **TERM 1: FALL**

CHEM 4610 Inorganic Chemistry	3 CREDIT HOURS
CHEM 3510 Survey of Physical Chemistry	3 CREDIT HOURS
PHYS 1112 + LAB Introductory Physics II	4 CREDIT HOURS
<b>ELECTIVE</b> 3000 or 4000 level course	3 CREDIT HOURS
CHEM ELECTIVE 3000 or 4000 level course	3 CREDIT HOURS

### **TERM 2: SPRING**

CHEM ELECTIVE 3000/4000 Level Course	3 CREDIT HOURS
CHEM 4910L Tools and Applications in Chemical Research and Practice	3 CREDIT HOURS
<b>ELECTIVE</b> 3000/4000 Level Course	4 CREDIT HOURS
<b>ELECTIVE</b> 3000/4000 Level Course	3 CREDIT HOURS

16 FALL CREDIT HOURS + 13 SPRING CREDIT HOURS = 29 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.

## 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.