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

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 PROFESSIONAL PREPARATION TRACK / ALGEBRA START

Bachelor of Science

60

CORE CREDIT HOURS

54

MAJOR CREDIT HOURS

9

ELECTIVE CREDIT HOURS



TERM 1: FALL

A1: ENGL 1101 3 CREDIT HOURS **English Composition I** 3 CREDIT HOURS **MATH 1111** College Algebra

B2: XIDS 2002 2 CREDIT HOURS First-Year Seminar

3 CREDIT HOURS E3: POLS 1101 American Government

4 CREDIT HOURS **D1:** BIOL 1107 + LAB

Principles of Biology I

A1: ENGL 1102

MILESTONE:

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

TERM 2: SPRING

3 CREDIT HOURS

English Composition II 4 CREDIT HOURS **A2: MATH 1113** Precalculus 4 CREDIT HOURS F: CHEM 1211 + LAB Principles of Chemistry I 4 CREDIT HOURS **D1:** BIOL 1108 + LAB

Principles of Biology II

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

TERM 3: SUMMER

4 CREDIT HOURS F: CHEM 1212 + LAB Principles of Chemistry I

3 CREDIT HOURS **E1 OR E2**

• CHEM 1212 GRADE OF B OR BETTER REQUIRED TO MOVE INTO ORGANIC CHEMISTRY

15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS + 7 SUMMER CREDIT HOURS = 37 CREDIT HOURS

EAR

Choose Concentration (ACS track recommended).

• Connect with your faculty mentor.

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

• Look at the Chemistry Careers page on the

American Chemical Society's webpage.

• Sign up for Handshake through Career Services.

Look into on-campus self-care and stress resources especially Campus Center, Health Services, and Counseling Center.

work, and fun).

Society's webpage.

Find study buddies.
Go to events, have fun (balance time between study,

. Look at the Careers page on the American Chemical

CRUSH YOUR COURSEWORK

FIND YOUR PLACE

BROADEN YOUR PERSPECTIVES

CONNECT OFF-CAMPUS

TAKE CARE OF YOURSELF

PAVE YOUR Path

3

TERM 1: FALL

| Organic Chemistry I | |
|---|------------------|
| E4: PSYC 1101 OR SOCI 1101 Intro to Psychology or Intro Sociology | 3 CREDIT HOURS |
| CHEM 2130 Organic Chemistry I | 1 CREDIT HOUR |
| D2: MATH 1634 Calculus I | 4 CREDIT HOURS |
| E1 OR E2 | CREDIT |

MILESTONE:

COMPETITIVE FOR MEDICAL SCHOOL

TERM 2: SPRING

| CHEM 3422 + LAB Organic Chemistry II | 4 CREDIT HOURS |
|---|----------------|
| B1: PHIL 2020 Critical Thinking | 3 CREDIT HOURS |
| F: MATH 1401 OR 2644 Elementary Statistics or Calculus II | 3 CREDIT HOURS |
| BIOL ELECTIVE 3000 or 4000 level course | 4 CREDIT HOURS |

- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE COMPETITIVE FOR MEDICAL SCHOOL
- MOLECULAR BIOLOGY, HUMAN PHYSIOLOGY, GENETICS, MICROBIOLOGY.

F: CHEM 2411 + LAB 4 CREDIT

E1 UK E2 HOURS

• OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE

| CHEM 3422 + LAB Organic Chemistry II | 4 CREDIT HOURS |
|---|----------------|
| B1: PHIL 2020 Critical Thinking | 3 CREDIT HOURS |
| F: MATH 1401 OR 2644 Elementary Statistics or Calculus II | 3 CREDIT HOURS |
| BIOL ELECTIVE 3000 or 4000 level course | 4 CREDIT HOURS |

- RECOMMENDED BIOLOGY ELECTIVES: CELL AND

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,

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

TERM 1: FALL

CHEM 3310K 4 CREDIT HOURS Analytical Chemistry

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

3 CREDIT HOURS **BIOL ELECTIVE** 3000 or 4000 level course

4 CREDIT HOURS

PSYC OR SOCI ELECTIVE 3000 or 4000 level course

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 TAKING CHEM 4711

TERM 2: SPRING

3 CREDIT HOURS **CHEM 4711** Biochemistry

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

BIOL ELECTIVE 4 CREDIT HOURS

3 CREDIT HOURS **C2:** LITERATURE CLASS

MILESTONES:

3000 or 4000 level course

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

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

Additional Information:

- Recommended **Biology Electives**: Cell and Molecular Biology, Human Physiology, Genetics, Microbiology.
- Recommended Psychology Electives: Human Growth & Development, Social Psychology, Abnormal Psychology.

EAR

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- 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
- 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

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- Create an account in LinkedIn.
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TAKE CARE OF YOURSELF

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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 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 |
| C1: FINE ARTS | 3 CREDIT HOURS |

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

TERM 2: SPRING

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

| CHEM | ELECTIVE | 3 CREDIT HOURS |
|------|-----------------|----------------|
| | | |

| 3000 or 4000 level course | | |
|---------------------------|--|--|
| | | |

ELECTIVE Supporting Courses: CS 1300 OR MATH OR SPAN

3 CREDIT HOURS **ELECTIVE**

MILESTONE:

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

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

Additional Information:

- This 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
- This program map can be adapted for Dental, Vet, Physician's Assistant, Anesthesiology Assistant or Physical Therapy programs. Please see an advisor

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.