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.

HAVE A QUESTION?
CHECK IN WITH YOUR ADVISOR!
**YEAR 1**

**TERM 1: FALL**

- **A1:** ENGL 1101
  - English Composition I
  - 3 CREDIT HOURS

- **MATH 1111**
  - College Algebra
  - 3 CREDIT HOURS

- **B2:** XIDS 2002
  - First Year Seminar
  - 2 CREDIT HOURS

- **E3:** POLS 1101
  - American Government
  - 3 CREDIT HOURS

- **D1:** BIOL 1107 + LAB
  - Principles of Biology I
  - 4 CREDIT HOURS

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

**TERM 2: SPRING**

- **A1:** ENGL 1102
  - English Composition II
  - 3 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
  - 4 CREDIT HOURS

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

**TERM 3: SUMMER**

- **F:** CHEM 1212 + LAB
  - Principles of Chemistry II
  - 4 CREDIT HOURS

- **E1 OR E2**
  - 3 CREDIT HOURS

**MILESTONE:**
- CHEM 1212 GRADE OF B OR BETTER REQUIRED TO MOVE INTO ORGANIC CHEMISTRY

**PAVING PATH**

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

**YEAR 2**

**TERM 1: FALL**

- **F:** CHEM 2411 + LAB
  - Organic Chemistry I
  - 4 CREDIT HOURS

- **E4:** PSYC 1101 OR SOCI 1101
  - Intro to Psychology or Intro Sociology
  - 3 CREDIT HOURS

- **D2:** MATH 1634
  - Calculus I
  - 4 CREDIT HOURS

- **E1 OR E2**
  - 3 CREDIT HOURS

**MILESTONE:**
- OVERALL B OR BETTER GRADES HIGHLY DESIRABLE TO BE 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

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

**PAVING PATH**

- 2116

**BROADEN YOUR PERSPECTIVES**

- **CRUSH YOUR COURSEWORK**
  - Choose Concentration (ADS track recommended).

- **FIND YOUR PLACE**
  - Connect with your faculty mentor.
  - Join clubs (Chemistry Association or Emerging Healthcare Leaders recommended).

- **CONNECT OFF-CAMPUS**
  - 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.

**PAVE YOUR PATH**

- **15 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS
  = 29 CREDIT HOURS**
TERM 1: FALL

CHEM 3310K Analytical Chemistry 4 CREDIT HOURS
PHYS 1111/2211 Introductory or Principles of Physics I 4 CREDIT HOURS
BIOELECTIVE 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 3424L, AND CHEM 3106K MUST BE COMPLETED WITH C OR BETTER BEFORE 3 WAYS CHEM 4711

TERM 2: SPRING

CHEM 4711 Biochemistry 3 CREDIT HOURS
PHYS 1112/2212 Introductory or Principles of Physics II 4 CREDIT HOURS
BIOELECTIVE 3000 or 4000 level course 4 CREDIT HOURS
C2: 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

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

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

Additional Information:
- Recommended Biology Electives: Cell and Molecular Biology, Human Anatomy and Physiology, Genetics.

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 degree map can be adjusted for Dental, Vet, Physician’s Assistant, Anesthesiology, and Physical Therapy programs. Please see an advisor.