# BIOLOGY

## BIOMEDICAL SCIENCES CONCENTRATION

*Bachelor of Science*

**60** CORE CREDIT HOURS

**60** MAJOR CREDIT HOURS

**0** ELECTIVE CREDIT HOURS

## ABOUT THE MAJOR

The mission of the B.S. Degree in Biology at the University of West Georgia is to provide under-graduate students the knowledge and training necessary to pursue advanced graduate education, professional studies, or employment. In pursuit of this mission, the Biology Program offers a B.S. Degree Program via a general track. The general track is for students who plan to continue their education in graduate programs in the biological sciences or for those who wish to enter the biological sciences job market upon completion of the undergraduate degree. This track offers the greatest flexibility in selecting major courses, thus allowing students who wish to specialize in an area of biology to better prepare for graduate studies in that sub-discipline.

## 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?

- Agricultural/Food Scientist
- Biochemist
- Biological Technician
- Biology Teacher
- Conservation Biologist
- Environmental Scientist
- Geneticist
- Marine Biologist
- Microbiologist
- Wildlife Biologist

### ADD A CERTIFICATE

- Forensic Science
- Microbiology
- 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!

UNIVERSITY OF WEST GEORGIA

2026-2027

# YEAR 1

## TERM 1: FALL

**C: ENGL 1101** — 3 CREDIT HOURS
English Composition I

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

**I: XIDS 2002** — 2 CREDIT HOURS
First-Year Seminar

**P: HIST 1111** — 3 CREDIT HOURS
Survey of World History/Civilization I

**BIOL 1107 + LAB** — 4 CREDIT HOURS
Principles of Biology I

MILESTONES:
- COMPLETE ENGL 1101; REQUIRED TO EARN C OR HIGHER.
- COMPLETE MATH 1111; REQUIRED TO EARN C OR HIGHER.
- REQUIREMENT FOR THE MAJOR: COMPLETE BIOL 1110.
- REQUIREMENTS FOR THE MAJOR: COMPLETE BIOL 1107/1107L; REQUIRED TO EARN C OR HIGHER.

## TERM 2: SPRING

**C: ENGL 1102** — 3 CREDIT HOURS
English Composition II

**M: MATH 1113** — 4 CREDIT HOURS
Precalculus

**CHEM 1211 + LAB** — 4 CREDIT HOURS
Principles of Chemistry I

**BIOL 1108 + LAB** — 4 CREDIT HOURS
Principles of Biology II

MILESTONES:
- COMPLETE ENGL 1102; REQUIRED TO EARN C OR HIGHER.
- REQUIREMENTS FOR THE MAJOR: COMPLETE BIOL 1108/1108L; REQUIRED TO EARN C OR HIGHER.
- REQUIREMENTS FOR THE MAJOR: COMPLETE CHEM 1211/1211L; REQUIRED TO EARN C OR HIGHER.

**15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 30 CREDIT HOURS**

### CRUSH YOUR COURSEWORK
- Become familiar with the Library, Momentum Center, and Student Support Services that are available.
- Take Chemistry (CHEM 1211/1211L and CHEM 1212/1212L) and Biology (2107/2107L, and BIOL 2108/2108L) Core IMPACTS Courses and BIOL 1110.
- Attend your First Semester Advising Appointment and meet with your Academic Advisor and Biology Mentor.
- Make an Academic Plan.

### FIND YOUR PLACE
- Meet Biology Faculty and learn about their research, and scholarship opportunities.
- Join a discipline-specific club (Biology Club, Pre-Veterinary Medicine Club, Wildlife Club or Emerging Health Leaders).
- Connect with other Biology Majors.

### BROADEN YOUR PERSPECTIVES
- Explore diversity, equity, and inclusion resources and opportunities across campus.
- Learn to pay attention to and respect differing viewpoints and experiences in class.
- Participate in an academic, cultural or social activity/event.

### CONNECT OFF-CAMPUS
- Visit Wolves Vote to learn about the voting process and registration.
- Consider volunteering for a campaign or organization in your community.

### TAKE CARE OF YOURSELF
- Visit the UWG Wellness Hub to find all the resources available to you!
- Visit Health Services.
- Get fit! Visit URec to see all your options.
- Visit the Center for Economic Education and Financial Literacy.

### PAVE YOUR PATH
- Complete a self-assessment to see what careers and majors are right for you.
- Visit Office of Career and Graduate School Connections.
- Create your profile on Handshake.
- Consider applying for an on-campus job.

# YEAR 2

## TERM 1: FALL

**BIOL 1110** — 3 CREDIT HOURS
Biological Diversity

**P: POLS 1101** — 3 CREDIT HOURS
American Government

**CHEM 1212 + LAB** — 4 CREDIT HOURS
Principles of Chemistry II

**T: MATH 1401** — 3 CREDIT HOURS
Elementary Statistics

**A: ART 1201** — 3 CREDIT HOURS
Introduction to Art

MILESTONES:
- REQUIREMENTS FOR THE MAJOR: COMPLETE CHEM 1212/1212L; REQUIRED TO EARN C OR HIGHER.
- COMPLETE IMPACTS AREA T2: MATH 1401 RECOMMENDED FOR THE CONCENTRATION.

## TERM 2: SPRING

**A: SPAN 1001** — 3 CREDIT HOURS
Elementary Spanish I

**CHEM 2411 + LAB** — 4 CREDIT HOURS
Organic Chemistry I

**BIOL 3168** — 4 CREDIT HOURS
Evolution and Ecology

**BIOL 3134** — 4 CREDIT HOURS
Cell and Molecular Biology

MILESTONES:
- REQUIREMENTS FOR THE MAJOR: COMPLETE CHEM 2411/2411L; REQUIRED TO EARN C OR HIGHER.
- REQUIREMENTS FOR THE MAJOR: COMPLETE BIOL 3134 AND BIOL 3168
- REQUIREMENT FOR THE CONCENTRATION: COMPLETE BIOL 3/4000 (ONE COURSE IN GROUP 1 OF THE UPPER LEVEL - GUIDED ELECTIVES).

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

### CRUSH YOUR COURSEWORK
- Complete Area F in sophomore year.
- Complete BIOL 3134, BIOL 3135 or 3234 and BIOL 3310 in sophomore year.
- Establish your academic and undergraduate research concentration and certificate options.
- Take required courses as they are offered.
- Finish Core IMPACTS.
- Stay connected with your Academic Advisor and Faculty Mentor and review your degree requirements to determine if you are on track to graduate.

### FIND YOUR PLACE
- Explore Internship and Faculty-Mentored Research opportunities in your sophomore and junior years.
- Volunteer for a leadership position in a biology club.
- Become an active participant and volunteer in the classroom, lab, field trips, and STEM outreach.
- Attend a scientific conference.
- Get involved in other clubs and professional societies related to your interests.

### BROADEN YOUR PERSPECTIVES
- Take part in or help organize an implicit bias workshop.
- Dig deeper into study abroad opportunities.
- Learn a new language.
- Take part in cultural offerings on campus.

### CONNECT OFF-CAMPUS
- Do volunteer work in your field.
- Ask your department about networking opportunities with alumni.
- Attend career fairs and events.
- Attend UWG sponsored events off-campus.

### TAKE CARE OF YOURSELF
- Take a fitness class, climb the rock wall, or join an intramural team.
- Consider whether counseling is right for you: take a mental health screening.

### PAVE YOUR PATH
- Visit Career Services and attend a 'resume-building' workshop.
- Draft your resume and attend an interview workshop with Career Services.
- Learn about how to network on social media and update your Handshake profile.
- Draft your personal statement.
- Visit the graduate school to find out about graduate programs and admission requirements.
- Apply for Scholarships through the Scholarship Portal.

# YEAR 3

## TERM 1: FALL

**BIOL 3/4000** — 4 CREDIT HOURS
Concentration Elective - Group 1

**BIOL 3/4000** — 4 CREDIT HOURS
Concentration Elective

**T: PHYS 1111 + LAB** — 4 CREDIT HOURS
Introductory Physics I

**S: HIST 2111** — 3 CREDIT HOURS
U S History I (to 1865)

MILESTONES:
- REQUIREMENT FOR THE CONCENTRATION: COMPLETE BIOL 3/4000 (ONE COURSE IN GROUP 1 OF THE UPPER LEVEL - GUIDED ELECTIVES).

## TERM 2: SPRING

**BIOL 3/4000** — 4 CREDIT HOURS
DSW Concentration Elective

**S: PSYC 1101** — 3 CREDIT HOURS
Introduction to General Psychology

**BIOL 2251 + LAB** — 4 CREDIT HOURS
(Recommended Elective) Human Anatomy and Physiology I

**T: PHYS 1112 + LAB** — 4 CREDIT HOURS
Introductory Physics II

MILESTONES:
- REQUIREMENT FOR THE MAJOR: COMPLETE 2 DSW COURSES, ONE MUST BE IN BIOLOGY.
- COMPLETE RECOMMENDED ELECTIVES: BIOL 2251/2251L RECOMMENDED FOR CONCENTRATION.

**15 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 30 CREDIT HOURS**

### CRUSH YOUR COURSEWORK
- Complete Area F in sophomore year.
- Complete BIOL 3134, BIOL 3135 or 3234 and BIOL 3310 in sophomore year.
- Establish your academic and undergraduate research concentration and certificate options.
- Take required courses as they are offered.
- Finish Core IMPACTS.
- Stay connected with your Academic Advisor and Faculty Mentor and review your degree requirements to determine if you are on track to graduate.

### FIND YOUR PLACE
- Explore Internship and Faculty-Mentored Research opportunities in your sophomore and junior years.
- Volunteer for a leadership position in a biology club.
- Become an active participant and volunteer in the classroom, lab, field trips, and STEM outreach.
- Attend a scientific conference.
- Get involved in other clubs and professional societies related to your interests.

### BROADEN YOUR PERSPECTIVES
- Take part in or help organize an implicit bias workshop.
- Dig deeper into study abroad opportunities.
- Learn a new language.
- Take part in cultural offerings on campus.

### CONNECT OFF-CAMPUS
- Do volunteer work in your field.
- Ask your department about networking opportunities with alumni.
- Attend career fairs and events.
- Attend UWG sponsored events off-campus.

### TAKE CARE OF YOURSELF
- Take a fitness class, climb the rock wall, or join an intramural team.
- Consider whether counseling is right for you: take a mental health screening.

### PAVE YOUR PATH
- Visit Career Services and attend a 'resume-building' workshop.
- Draft your resume and attend an interview workshop with Career Services.
- Learn about how to network on social media and update your Handshake profile.
- Draft your personal statement.
- Visit the graduate school to find out about graduate programs and admission requirements.
- Apply for Scholarships through the Scholarship Portal.

# YEAR 4

## TERM 1: FALL

**BIOL 3/4000** — 4 CREDIT HOURS
Concentration Elective

**BIOL 3/4000** — 4 CREDIT HOURS
DSW Concentration Elective

**BIOL 2252 + LAB** — 4 CREDIT HOURS
(Recommended Elective) Human Anatomy and Physiology I

**I: COMM 1110** — 3 CREDIT HOURS
Public Speaking

MILESTONES:
- REQUIREMENT FOR THE MAJOR: COMPLETE BIOL 4984.
- REQUIREMENT FOR THE CONCENTRATION: COMPLETE AT LEAST 13 HOURS OF UPPER LEVEL - GUIDED ELECTIVES.
- REQUIREMENT FOR THE MAJOR: COMPLETE 2 DSW COURSES, ONE MUST BE IN BIOLOGY.
- COMPLETE RECOMMENDED ELECTIVES: BIOL 2252/2252L RECOMMENDED FOR CONCENTRATION.
- APPLY FOR GRADUATION.

## TERM 2: SPRING

**BIOL 3/4000** — 3 CREDIT HOURS
Free Elective

**BIOL 3/4000** — 3 CREDIT HOURS
Free Elective

**BIOL 3/4000** — 4 CREDIT HOURS
Concentration Elective

**BIOL 3/4000** — 3 CREDIT HOURS
Concentration Elective

**BIOL 4984** — 1 CREDIT HOUR
Senior Biology Seminar

MILESTONES:
- REQUIREMENT FOR THE MAJOR: COMPLETE AT LEAST 39 HOURS AT THE 3/4000 LEVEL.
- COMPLETE CORE.
- COMPLETE A MINIMUM OF 120 HOURS.

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

### CRUSH YOUR COURSEWORK
- Complete your research/internships.
- Present your research at a research conference.
- Finish your degree requirements.
- Take BIOL 4984 (Senior Seminar).

### FIND YOUR PLACE
- Become a Biology Ambassador.
- Expand your professional network.
- Apply for internships in local industries/agencies or apply to graduate programs.
- Attend career fairs.

### BROADEN YOUR PERSPECTIVES
- Send your resume to one of our alumni.
- Complete a self-assessment to see what careers and majors are right for you.
- Visit Career Services.
- Do an internship or study abroad.
- Take some electives that fall outside your area or study.
- Explore diversity and inclusion issues in your research and/or internship.

### CONNECT OFF-CAMPUS
- Ask for advice from professionals in your field of interest.
- Explore career shadowing opportunities.

### TAKE CARE OF YOURSELF
- Explore a farmer's market for fresh produce.
- Develop a post-graduation exercise plan.
- Explore your loan repayment options and complete your exit counseling.

### PAVE YOUR PATH
- Register for and complete standardized exams (e.g., MCAT, GRE, etc.) for professional and graduate school applications.
- Request references from professors and supervisors.
- Draft your resume cover letter and personal statement and revise it with Career Services.
- Attend business fairs and career fairs at UWG and across the state.
- Participate in a 'mock'/practice interview.
- Apply for professional or graduate programs and/or career opportunities.