ABOUT THE MAJOR
The Bachelor of Science degree program has multiple tracks, each designed for specific career goals. The student’s advisor will help the student choose the best track, based on the student’s interests. This track is designed to offer students a solid background in applied mathematics, prepare them for employment in government agencies such as communications, national security, and computer-related fields or industry such as engineering or computational types of work. It also prepares students for further study in mathematics.

WHERE CAN YOU GO WITH THIS DEGREE?
- Actuary
- Auditor
- Civil Engineer
- Computer Programmer
- Economist
- Financial Analyst
- Mathematician
- Mathematics Teacher
- Operations Analyst
- Scientist

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.

ADD A CERTIFICATE
- Communication in the Workplace
- Data Analytics
- Data Science

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!
TERM 1: FALL

A1: ENGL 1101 English Composition I
3 CREDIT HOURS

A2: MATH 1113 Precalculus
4 CREDIT HOURS

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

E3: POLS 1101 American Government
3 CREDIT HOURS

C1: FINE ARTS
3 CREDIT HOURS

MILESTONES:
• COMPLETE ENGL 1101 WITH C OR BETTER
• COMPLETE MATH 1113 WITH C OR BETTER

TERM 2: SPRING

A1: ENGL 1102 English Composition II
3 CREDIT HOURS

D2: MATH 1634 Calculus I
4 CREDIT HOURS

F: CS 1300 Introduction to Computer Science
4 CREDIT HOURS

E2: HIST 2111 OR 2112 US History
3 CREDIT HOURS

MATH 2009 Sophomore Seminar
1 CREDIT HOUR

MILESTONES:
• COMPLETE A1 REQUIREMENT
• COMPLETE MATH 1634 WITH C OR BETTER

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

TERM 1: FALL

F: MATH 2644 Calculus II
4 CREDIT HOURS

F: MATH 2853 Elementary Linear Algebra
3 CREDIT HOURS

CS 1301 Computer Science I
4 CREDIT HOURS

B1: ORAL COMMUNICATION
3 CREDIT HOURS

MILESTONES:
• COMPLETE CALCULUS II & CS REQUIREMENT
• COMPLETE MATH 2644 WITH C OR BETTER

TERM 2: SPRING

F: MATH 2654 Calculus III
4 CREDIT HOURS

MATH 3003 Transition to Advanced Mathematics
3 CREDIT HOURS

C2: HUMANITIES
3 CREDIT HOURS

D1: SCIENCE + LAB
4 CREDIT HOURS

MILESTONE:
• COMPLETE CALCULUS SEQUENCE & D1 REQUIREMENT

14 FALL CREDIT HOURS + 14 SPRING CREDIT HOURS = 28 CREDIT HOURS

YEAR 2

CRUSH YOUR COURSEWORK
• Focus on the core courses to build your foundation.
• Take MATH 1113 and 1034 right away.
• Complete ENGL 1101 and 1102.

FIND YOUR PLACE
• Explore campus resources, including the Writing Center, STEM Tutoring Center, etc.
• Explore clubs and organizations that are available to you.
• Visit the Office of Undergraduate Research.

BROADEN YOUR PERSPECTIVES
• Explore diversity, equity, and inclusion resources and opportunities across campus.
• Check out the education abroad office.

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

TAKE CARE OF YOURSELF
• Visit the UWG Wellness Hub to find all the resources available to you!
• Visit Health Services.
• 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.
• Complete a self-assessment to see what careers and majors are right for you.

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

CRUSH YOUR COURSEWORK
• Complete MATH 2644, 2853, 3003 so that you are able to take advanced math courses.
• Identify and take courses in the track of your major.
• Complete other core courses.

FIND YOUR PLACE
• Discuss career tracks with your faculty mentor.
• Explore summer REU programs and other undergraduate research opportunities with faculty members.
• Attend events organized by Math Club.

BROADEN YOUR PERSPECTIVES
• In a student organization? Suggest you all complete an implicit bias workshop.
• Consider a study abroad program. Check out students’ stories of their experiences.

CONNECT OFF-CAMPUS
• Complete an internship in your field.
• Consider a summer or part-time job.
• Ask your department about networking opportunities with alumni.

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
• Draft your resume and attend a resume blitz.
• 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.
TERM 1: FALL

**MATH 3243**
Advanced Calculus 3 CREDIT HOURS

**MATH 3303**
Ordinary Differential Equations 3 CREDIT HOURS

**MATH 4013**
Numerical Analysis 3 CREDIT HOURS

**D1: SCIENCE + LAB**
4 CREDIT HOURS

**E4: SOCIAL SCIENCE**
3 CREDIT HOURS

TERM 2: SPRING

**MATH 4353**
Complex Analysis 3 CREDIT HOURS

**MATH 4473**
Combinatorics 3 CREDIT HOURS

**MATH 4513**
Linear Algebra I 3 CREDIT HOURS

**DIRECTED ELECTIVE I**
3 CREDIT HOURS

**ELECTIVE**
3 CREDIT HOURS

TERM 1: FALL

**MATH 4363**
Partial Differential Equations 3 CREDIT HOURS

**MATH 4413**
Abstract Algebra I 3 CREDIT HOURS

**DIRECTED ELECTIVE II**
3 CREDIT HOURS

**ELECTIVE**
3 CREDIT HOURS

TERM 2: SPRING

**E1: HIST 1111 OR 1112**
World History 3 CREDIT HOURS

**MATH 4483**
Graph Theory 3 CREDIT HOURS

**MATH 4983**
Senior Project 1 CREDIT HOUR

**DIRECTED ELECTIVE III**
3 CREDIT HOURS

**ELECTIVE**
3 CREDIT HOURS

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

CRUSH YOUR COURSEWORK

- Complete MATH 2644, 2853, 3003 so that you are able to take advanced math courses.
- Identify and take courses in the track of your major.
- Complete other core courses.

FIND YOUR PLACE

- Discuss career tracks with your faculty mentor.
- Explore summer REU programs and other undergraduate research opportunities with faculty members.
- Attend events organized by Math Club.
- Attend UWG Scholars’ Day.

BROADEN YOUR PERSPECTIVES

- In a student organization? Suggest you all complete an implicit bias workshop.
- Consider a study abroad program. Check out students’ stories of their experiences.

CONNECT OFF-CAMPUS

- Complete an internship in your field.
- Consider a summer or part-time job.
- Ask your department about networking opportunities with alumni.

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

- Draft your resume and attend a resume blitz.
- 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.

YEAR 4

TERM 1: FALL

**MATH 4363**
Partial Differential Equations 3 CREDIT HOURS

**MATH 4413**
Abstract Algebra I 3 CREDIT HOURS

**DIRECTED ELECTIVE II**
3 CREDIT HOURS

**ELECTIVE**
3 CREDIT HOURS

TERM 2: SPRING

**E1: HIST 1111 OR 1112**
World History 3 CREDIT HOURS

**MATH 4483**
Graph Theory 3 CREDIT HOURS

**MATH 4983**
Senior Project 1 CREDIT HOUR

**DIRECTED ELECTIVE III**
3 CREDIT HOURS

**ELECTIVE**
3 CREDIT HOURS

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

CRUSH YOUR COURSEWORK

- Complete other major courses that fit with your career goals and elective in other discipline.
- Complete the required senior project.
- Explore internship opportunities.

FIND YOUR PLACE

- Hone your leadership skills in clubs/organizations
- Ask about undergraduate research conference and presentation opportunities.
- Explore job opportunities and/or apply to graduate school.

BROADEN YOUR PERSPECTIVES

- Assess your cultural competency.
- Consider working abroad and research visa regulations.
- Explore practices of creating more inclusive careers.

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

- 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.
- Attend an interview workshop.
- Apply for graduate programs.