MATHEMATICS

APPLIED STATISTICS AND DATA ANALYTICS TRACK

Bachelor of Science

60 CORE CREDIT HOURS

42 MAJOR CREDIT HOURS

18 ELECTIVE CREDIT HOURS

ABOUT THE MAJOR

The Bachelor of Science degree program has two plans, each designed for specific career goals: The Pure and Applied Mathematics Track; and The Applied Statistics and Data Analytics Track. The student's advisor and mentor will help the student choose the best track, based on the student's interests.

This track designed to offer students a solid background in applied statistics and data analytics. It will prepare students for employment in a wide array of fields that employ data analysis, statistical modeling, data-driven decision-making, and other types of quantitative analysis.

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?

- Actuary
- Auditor
- Data Analyst
- Economist
- Financial Analyst
- Investment Banker
- Mathematician
- Mathematics Teacher
- Numerical Analyst
- Operations Analyst
- Research Scientist

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!

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

C1: ENGL 1101 — 3 CREDIT HOURS
English Composition I

M: MATH 1113 — 4 CREDIT HOURS
Precalculus

I2: XIDS 2002 — 2 CREDIT HOURS
(Recommended) First-Year Seminar

S1: HIST 1111 OR 1112 — 3 CREDIT HOURS
World History

T1: SCIENCE + LAB — 4 CREDIT HOURS

MILESTONES:
- COMPLETE ENGL 1101; REQUIRED TO EARN C OR HIGHER
- COMPLETE MATH 1113; REQUIRED TO EARN C OR HIGHER

TERM 2: SPRING

C2: ENGL 1102 — 3 CREDIT HOURS
English Composition II

T3: MATH 1634 — 4 CREDIT HOURS
Calculus I

F: CS 1300 — 4 CREDIT HOURS
Introduction to Computer Science

P1: HIST 2111 OR 2112 — 3 CREDIT HOURS
US History

F: MATH 2009 — 1 CREDIT HOUR
Sophomore Seminar

MILESTONES:
- COMPLETE ENGL 1102; REQUIRED TO EARN C OR HIGHER
- COMPLETE MATH 1634 WITH C OR BETTER

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

CRUSH YOUR COURSEWORK
- Focus on the core courses to build your foundation.
- Take MATH 1113 and 1634 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.

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

F: MATH 2644 — 4 CREDIT HOURS
Calculus II

F: MATH 2853 — 3 CREDIT HOURS
Elementary Linear Algebra

I1: ORAL COMMUNICATION — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

MILESTONE:
- COMPLETE MATH 2644 WITH C OR BETTER

TERM 2: SPRING

F: MATH 2654 — 4 CREDIT HOURS
Calculus III

MATH 1401 — 3 CREDIT HOURS
Elementary Statistics

MATH 3203 — 3 CREDIT HOURS
Mathematical Probability

T2: SCIENCE + LAB — 4 CREDIT HOURS

MILESTONE:
- COMPLETE CALCULUS SEQUENCE & LAB SCIENCE SEQUENCE COMPLETED

16 FALL CREDIT HOURS + 14 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.
- 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 3

TERM 1: FALL

MATH 4213 — 3 CREDIT HOURS
Mathematical Statistics

MATH 3873 — 3 CREDIT HOURS
Statistical Programming

MATH 4803 — 3 CREDIT HOURS
Analysis of Variance

S2: SOCIAL SCIENCE — 3 CREDIT HOURS

A: HUMANITIES — 3 CREDIT HOURS

TERM 2: SPRING

MATH 4813 — 3 CREDIT HOURS
Regression Analysis

MATH 4873 — 3 CREDIT HOURS
Advanced Data Analytics

DIRECTED ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

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.
- 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

P2: POLS 1101 — 3 CREDIT HOURS
American Government

MATH 4843 — 3 CREDIT HOURS
Introduction to Sampling

MATH 4823/4833/4885 — 3 CREDIT HOURS
Applied Experimental Design, Applied Nonparametric Statistics, or Special Topics in Applied Statistics

DIRECTED ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

TERM 2: SPRING

MATH 4983 OR 4986 — 3 CREDIT HOUR
Senior Project or Internship

A: HUMANITIES — 3 CREDIT HOURS

DIRECTED ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

ELECTIVE — 3 CREDIT HOURS

MILESTONE:
- COMPLETE 120 CREDIT HOURS

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

CRUSH YOUR COURSEWORK

- Complete other major courses that fit with your career goals and elective in other disciplines.
- 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.