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.
### YEAR 1

#### TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1: ENGL 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>M: MATH 1113</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>I2: XIDS 2002</td>
<td>(Recommended) First-Year Seminar</td>
<td>2</td>
</tr>
<tr>
<td>S1: HIST 1111 OR 1112</td>
<td>World History</td>
<td>3</td>
</tr>
<tr>
<td>T1: SCIENCE + LAB</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

**Credit Hours:** 16

**Milestones:**
- Complete ENGL 1101; Required to earn C or higher
- Complete MATH 1113; Required to earn C or higher

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#### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>C2: ENGL 1102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>T3: MATH 1634</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>F: CS 1300</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>P1: HIST 2111 OR 2112</td>
<td>US History</td>
<td>3</td>
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<tr>
<td>F: MATH 2009</td>
<td>Sophomore Seminar</td>
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</table>

**Credit Hours:** 15

**Milestones:**
- Complete ENGL 1102; Required to earn C or higher
- Complete MATH 1634 with C or better

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### YEAR 2

#### TERM 1: FALL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>F: MATH 2644</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>F: MATH 2853</td>
<td>Elementary Linear Algebra</td>
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</tr>
<tr>
<td>I1: ORAL COMMUNICATION</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>S2: SOCIAL SCIENCE</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
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<td>3</td>
</tr>
</tbody>
</table>

**Credit Hours:** 14

**Milestones:**
- Complete MATH 2644 & 2853 with C or better
- Complete Calculus Sequence & Lab Science Sequence Completed

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#### TERM 2: SPRING

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: MATH 2654</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1401</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3203</td>
<td>Mathematical Probability</td>
<td>3</td>
</tr>
<tr>
<td>T2: SCIENCE + LAB</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

**Credit Hours:** 15

**Milestones:**
- Complete MATH 2644, 2654, 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.

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### CRUSH YOUR COURSEWORK

- Focus on the core courses to build your foundation.
- Take MATH 1113 and 1134 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.
- Visit the Office of Undergraduate Research.

### TAKE CARE OF YOURSELF

- Visit the UWG Wellness Hub to find all the resources available to you!
- Visit Health Services.
- Visit Office of Career and Graduate School Connections.
- Create your profile on Handshake.
- Consider applying for an on-campus job.

### 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.

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**16 FALL CREDIT HOURS + 15 SPRING CREDIT HOURS = 31 CREDIT HOURS**
### YEAR 3

#### TERM 1: FALL
- **MATH 4213** Mathematical Statistics 3 CREDIT HOURS
- **MATH 3873** Statistical Programming 3 CREDIT HOURS
- **MATH 4803** Analysis of Variance 3 CREDIT HOURS
- **COMP 3800** Data Analytics 3 CREDIT HOURS
- **A: HUMANITIES** 3 CREDIT HOURS

#### TERM 2: SPRING
- **MATH 4813** Regression Analysis 3 CREDIT HOURS
- **MATH 4873** Advanced Data Analytics 3 CREDIT HOURS
- **DIRECTED ELECTIVE** 3 CREDIT HOURS
- **ELECTIVE** 3 CREDIT HOURS

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

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### TERM 2: SPRING
- **MATH 4983 OR 4986** Senior Project or Internship 3 CREDIT HOUR
- **A: HUMANITIES** 3 CREDIT HOURS
- **DIRECTED ELECTIVE** 3 CREDIT HOURS
- **ELECTIVE** 3 CREDIT HOURS

### MILESTONE:
- Complete 120 CREDIT HOURS

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