ABOUT THE MAJOR
Our BS in Computer Science program offers students a focused and progressive curriculum that provides the knowledge needed to succeed as software developers in today’s information technology job market.

The program is offered face-to-face at the UWG Carrollton campus and is accredited by the Computing Accreditation Commission of ABET.

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?
- AI Engineer
- Computer Hardware Engineer
- Information Security Analyst
- IT Project Manager
- Mobile App Developer
- Software Developer
- Systems Architect
- UX Designer
- Video Game Developer
- Web Developer

ADD A CERTIFICATE
- Communication in the Workplace
- Data Analytics
- Data Analytics & Evaluation Methods
- Data Science

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ADD A CERTIFICATE
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- Data Analytics & Evaluation Methods
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HONORS COLLEGE
Consider joining if you have an Overall GPA of 3.2 and earned 15 college credit hours!

Visit westga.edu/program-maps for the latest version of this major map.
TERM 1: FALL

C1: ENGL 1101  
English Composition I  
3 CREDIT HOURS

M: MATH 1111  
College Algebra  
3 CREDIT HOURS

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

P2: POLS 1101  
American Government  
3 CREDIT HOURS

S2: SOCIAL SCIENCE  
3 CREDIT HOURS

MILESTONES:
• COMPLETE ENGL 1101 WITH C OR BETTER.
• COMPLETE MATH 1111 WITH C OR BETTER.

TERM 2: SPRING

C2: ENGL 1102  
English Composition II  
3 CREDIT HOURS

MATH 1112 OR 1113  
Trip & Analytic Geometry or Precalculus  
3/4 CREDIT HOURS

S1: HIST 1111 OR 1112  
World History  
3 CREDIT HOURS

A: FINE ARTS  
3 CREDIT HOURS

I1: WRITTEN AND ORAL COMMUNICATION  
3 CREDIT HOURS

MILESTONES:
• COMPLETE ENGL 1102 WITH C OR BETTER.
• COMPLETE MATH 1112 OR MATH 1113 WITH C OR BETTER.

14 FALL CREDIT HOURS + 15/16 SPRING CREDIT HOURS = 29/30 CREDIT HOURS

TERM 1: FALL

F: CS 1301  
Computer Science I  
4 CREDIT HOURS

T3: MATH 1634  
Calculus I  
4 CREDIT HOURS

ENGL 3405  
Professional and Technical Writing  
3 CREDIT HOURS

T1: SCIENCE + LAB  
MILESTONES:
• COMPLETE CS 1301 WITH B OR BETTER.
• COMPLETE MATH 1634 WITH C OR BETTER.
• OPTIONS FOR T1 ARE BELOW.

TERM 2: SPRING

F: CS 1302  
Computer Science II  
4 CREDIT HOURS

F: MATH 1401  
Elementary Statistics  
3 CREDIT HOURS

A: HUMANITIES  
3 CREDIT HOURS

T2: SCIENCE + LAB  
MILESTONES:
• COMPLETE CS 1302 WITH B OR BETTER.
• OPTIONS FOR T2 ARE BELOW.

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

Additional Information:
• Take a MATH course every semester until you complete your Math requirements. Get those out of the way early! (MATH 1624, MATH 1402, MATH 2853, and MATH 3003).
• Take your two science lab courses as soon as possible (BIO 1107, BIO 1108, CHEM 1211, CHEM 1212, PHYS 2221 and/or PHYS 2222, plus the associated lab sections).

• Regularly hang out in the 24/7 Mitchell Clifton Computing Center to work on class projects and socialize with friends.
• Apply to be a lab assistant in the csX tutoring lab.
• Work on a side project in the Innovation Lab.
• Maintain a school-life balance, e.g., eat out with friends and family, attend a concert or play, make time for your hobbies.

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

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

• 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.
• In a student organization? Suggest everyone complete an implicit bias workshop.
• Consider whether counseling is right for you: take a mental health screening.

• 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.

• Visit the UWG Wellness Hub to find all the resources available to you!
• Visit Health Services.
• Visit the Computing Center to work on class projects and opportunities across campus.
• Check out the education abroad office.

• Complete CS 1301 with an A or B; this is the prerequisite to all your CS courses.
• Complete MATH 1113 or MATH 1112 (with a C or better) to stay on track for your Mathematics requirements.
• Complete ENGL 1101 & 1102.

• Join ACM and/or ACM-W for networking and connection with your computing peers.
• Join another student organization to have a balanced life outside of computing.
• Talk with your advisor (or other computing faculty) about what you love about computing.

• Explore diversity, equity, and inclusion resources and registration.
• Complete a self-assessment to see what careers and majors are right for you.
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• Take your two science lab courses as soon as possible (BIO 1107, BIO 1108, CHEM 1211, CHEM 1212, PHYS 2221 and/or PHYS 2222, plus the associated lab sections).
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• Visit the UWG Wellness Hub to find all the resources available to you!
• Visit Health Services.
• Visit the Computing Center to work on class projects and opportunities across campus.
• Check out the education abroad office.

• Complete CS 1302 with B or better.
• Complete CS 1301 WITH B OR BETTER.
• OPTIONS FOR T1 ARE BELOW.

• PAVE YOUR PATH
• CRUSH YOUR COURSEWORK
• FIND YOUR PLACE
• BROADEN YOUR PERSPECTIVES
• CONNECT OFF-CAMPUS
• TAKE CARE OF YOURSELF
• PAY YOUR DEBT

• English Composition I
• College Algebra
• (Recommended) First-Year Seminar
• American Government
• English Composition II
• World History
• MATH 1112 OR 1113
• Trip & Analytic Geometry or Precalculus
• World History
• English Composition II
• English Composition II
• (Recommended) First-Year Seminar
• American Government
• English Composition II
• World History
• MATH 1112 OR 1113
• Trip & Analytic Geometry or Precalculus
• World History
• English Composition II
• World History
## YEAR 3

### TERM 1: FALL

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<td>CS 3201</td>
<td>Program Construction I</td>
<td>3</td>
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<td>CS 3211</td>
<td>Software Engineering I</td>
<td>3</td>
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<tr>
<td>CS 3110</td>
<td>System Architecture</td>
<td>3</td>
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<tr>
<td>F: MATH 2853</td>
<td>Elementary Linear Algebra</td>
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### TERM 2: SPRING

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<td>CS 3212</td>
<td>Software Engineering II</td>
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<tr>
<td>CS 3151</td>
<td>Data Structures and Discrete Math I</td>
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<td>CS 3270</td>
<td>Intelligent Systems</td>
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<tr>
<td>MATH 3003</td>
<td>Transition to Advanced Mathematics</td>
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**MILESTONE:**
- COMPLETE MATH 2853 C OR BETTER.

### TERM 1: FALL

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<td>CS 3230</td>
<td>Information Management</td>
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<tr>
<td>CS 3152</td>
<td>Data Structures and Discrete Math II</td>
<td>4</td>
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<tr>
<td>P1: HIST 2111 OR 2112</td>
<td>US History</td>
<td>3</td>
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<td>CS/COMP ELECTIVE</td>
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### TERM 2: SPRING

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<td>CS 4986</td>
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<tr>
<td>CS 4982</td>
<td>Computing Capstone</td>
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<tr>
<td>CS 4225</td>
<td>Distributed and Cloud Computing</td>
<td>3</td>
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### 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.

### CRUSH YOUR COURSEWORK

- Take a MATH course every semester until you complete your MATH requirements. Get those out of the way early (MATH 1264, MATH 1401, MATH 2853, and MATH 3003).
- Take your two science lab courses as soon as possible (Biol 1107, Biol 1108, Chem 1211, Chem 1212, Psys 2221 and/or Psys 2222, plus the associated lab sections).

### FIND YOUR PLACE

- Regularly hang out in the 24/7 Mitchell Clifton Computing Center to work on class projects and socialize with friends.
- Apply to be a lab assistant in the csX tutoring lab.
- Work on a side project in the Innovation Lab.
- Maintain a school/life balance, e.g., eat out with friends and family, attend a concert or play, make time for your hobbies.

### 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 working abroad and research visa regulations.
- Explore practices of creating more inclusive careers.

### 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

- Complete your required internship experience (CS 4986).
- Complete your required Computing Capstone project course (CS 4982).

### CRUSH YOUR COURSEWORK

- Volunteer as an ACM or ACM-W officer.
- Work on an independent study or directed research project with a faculty mentor.

### FIND YOUR PLACE

- Volunteer as an ACM or ACM-W officer.
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### 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.

**YEAR 4**

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