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

WHERE CAN YOU GO WITH THIS DEGREE?

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!
YEAR 1

TERM 1: FALL

A1: ENGL 1101
English Composition I
3 CREDIT HOURS

A2: MATH 1111
College Algebra
3 CREDIT HOURS

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

E3: POLS 1101
American Government
3 CREDIT HOURS

E4: SOCIAL SCIENCE

MILESTONES:
• Complete ENGL 1101 with C or better.
• Complete MATH 1111 with C or higher.

TERM 2: SPRING

A1: ENGL 1102
English Composition II
3 CREDIT HOURS

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

E1: HIST 1111 OR 1112
World History
3 CREDIT HOURS

C1: FINE ARTS

B1: WRITTEN AND ORAL COMMUNICATION

MILESTONES:
• Complete ENGL 1102 with C or better.
• Complete MATH 1112 or MATH 1113 with C or higher.

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

YEAR 2

TERM 1: FALL

F: CS 1301
Computer Science I
4 CREDIT HOURS

D2: MATH 1634
Calculus II
4 CREDIT HOURS

ENGL 3405
Professional and Technical Writing
3 CREDIT HOURS

D1: SCIENCE + LAB

MILESTONES:
• Complete CS 1301 with B or better.
• Complete MATH 1104 with C or better.
• Options for D1 are below.

TERM 2: SPRING

F: CS 1302
Computer Science II
4 CREDIT HOURS

F: MATH 1401
Elementary Statistics
3 CREDIT HOURS

C2: HUMANITIES

D1: SCIENCE + LAB

MILESTONES:
• Complete CS 1302 with B or better.
• Options for D1 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 1204, MATH 1401, MATH 2853, and MATH 3003).
• Take your two science lab courses as soon as possible (Biol 1107, Biol 1108, Chem 1121, Chem 1122, PHS 2211 and/or PHS 2221, 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 site 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 you 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.

• Draft your resume and attend a resume blitz.
• Learn about the University’s resume-building program and update your Handshake profile.
• Draft your personal statement.
• Visit the CSX tutoring lab and/or the 24/7 Mitchell Clifton Computing Center to work on class projects and socialize with friends.

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**TERM 1: FALL**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 2100</td>
<td>Introduction to Web Development</td>
<td>3</td>
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<tr>
<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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<td>CS 3110</td>
<td>System Architecture</td>
<td>3</td>
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<td>F: MATH 2853</td>
<td>Elementary Linear Algebra</td>
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**TERM 2: SPRING**

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<td>CS 3202</td>
<td>Program Construction II</td>
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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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<tr>
<td>CS 3270</td>
<td>Intelligent Systems</td>
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<td>MATH 3003</td>
<td>Transition to Advanced Mathematics</td>
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<td>Systems Programming</td>
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<td>CS 3230</td>
<td>Information Management</td>
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<td>CS 3152</td>
<td>Data Structures and Discrete Math II</td>
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<td>E2: HIST 2111 OR 2112</td>
<td>US History</td>
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**TERM 2: SPRING**

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<td>CS 4986</td>
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<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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<tr>
<td>CS/COMP ELECTIVE</td>
<td></td>
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<tr>
<td>GENERAL ELECTIVE</td>
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**CRUSH YOUR COURSEWORK**

- Take a MATH course every semester until you complete your MATH requirements. Get these 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, Phys 2221 and/or Phys 2222, plus the associated lab sections).

**FIND YOUR PLACE**

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

**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**

- 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 4**

<table>
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<th>Course Code</th>
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<tr>
<td>CS 4225</td>
<td>Distributed and Cloud Computing</td>
<td>3</td>
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<tr>
<td>CS/COMP ELECTIVE</td>
<td></td>
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</tr>
<tr>
<td>GENERAL ELECTIVE</td>
<td></td>
<td>3</td>
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</tbody>
</table>

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

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