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

CORE CREDIT HOURS

MAJOR CREDIT HOURS

ELECTIVE CREDIT HOURS

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

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
E4: SOCIAL SCIENCE 3 CREDIT HOURS

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

TERM 2: SPRING

A1: ENGL 1102 English Composition II 3 CREDIT HOURS
D2: MATH 1634 Calculus I 4 CREDIT HOURS
F: CS 1301 Computer Science I 4 CREDIT HOURS
B1: WRITTEN AND ORAL COMMUNICATION

MILESTONES:
• COMPLETE ENGL 1102 WITH C OR BETTER.
• COMPLETE CS 1301 WITH B OR BETTER.
• COMPLETE MATH 1634 WITH C OR BETTER.

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

TERM 1: FALL

F: CS 1302 Computer Science II 4 CREDIT HOURS
F: CS 2100 Introduction to Web Development 3 CREDIT HOURS
F: MATH 1401 Elementary Statistics 3 CREDIT HOURS
ENGL 3405 Professional and Technical Writing 3 CREDIT HOURS
C1: FINE ARTS 3 CREDIT HOURS

MILESTONE:
• COMPLETE CS 1302 WITH B OR BETTER.

TERM 2: SPRING

CS 3151 Data Structures and Discrete Math I 4 CREDIT HOURS
CS 3270 Intelligent Systems 3 CREDIT HOURS
F: MATH 2853 Elementary Linear Algebra 3 CREDIT HOURS
E1: HIST 1111 OR 1112 World History 3 CREDIT HOURS

ELECTIVE 3 CREDIT HOURS

MILESTONE:
• COMPLETE MATH 2853 C OR BETTER.

16 FALL CREDIT HOURS + 16 SPRING CREDIT HOURS = 32 CREDIT HOURS

FINISH YOUR COURSEWORK

• 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.

CRUSH YOUR COURSEWORK

• Complete MATH 1634 with C or better.
• Complete CS 1301 with B or better.
• Complete ENGL 1102 with C or better.

BROADEN YOUR PERSPECTIVES

• Explore diversity, equity, and inclusion resources and opportunities across campus.
• Check out the education abroad office.
• Visit the Center for Economic Education and Financial Literacy.
• Take a MATH course every semester until you complete your MATH requirements. Get those out of the way early! (MATH 124, MATH 1342, MATH 2203, and MATH 3003).

CONNECT OFF-CAMPUS

• Visit Wolves Vote to learn about the voting process and registration.
• Consider volunteering for a campaign or organization in your community.
• Consider applying for an on-campus job.

TAKE CARE OF YOURSELF

• Visit the IMC Wellness Hub to find all the resources available to you!
• Visit Health Services.
• Get fit! Visit Office to see all your options.
• Visit the Center for Economic Education and Financial Literacy.

• 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.

TAKE YOUR PATH

• Complete your MATH requirements. Get these out of the way early! (MATH 124, MATH 1342, MATH 2203, and MATH 3003).
• Take your two science lab courses as soon as possible (Biol 1107, Biol 1108, Chem 1211, Chem 1212, Phys 2211 and/or Phys 2221, plus the associated lab sections).

• 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**

- CS 3201  Program Construction I  3 CREDIT HOURS
- CS 3211  Software Engineering I  3 CREDIT HOURS
- CS 3152  Data Structures and Discrete Math II  4 CREDIT HOURS
- MATH 3003  Transition to Advanced Mathematics  3 CREDIT HOURS
- **D1: SCIENCE + LAB**  4 CREDIT HOURS

**MILESTONE:**
- **COMPLETE D1; OPTIONS FOUND BELOW.**

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**TERM 2: SPRING**

- CS 3202  Program Construction II  3 CREDIT HOURS
- CS 3212  Software Engineering II  3 CREDIT HOURS
- **D1: SCIENCE + LAB**  4 CREDIT HOURS
- **CS/COMP ELECTIVE**  3 CREDIT HOURS

**MILESTONE:**
- **COMPLETE D1; OPTIONS FOUND BELOW.**

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**TERM 3: FALL**

**TAKING YOUR COURSEWORK**
- Take a MATH course every semester until you complete your MATH requirements. Get those out of the way early! (MATH 1624, MATH 1401, MATH 2803, 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**
- 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 CoX Tutoring lab.
- Work on a capstone project in the Innovation Lab.
- Maintain a social life balance, e.g., not 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.
- 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.

**PAY 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.

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**TERM 4: FALL**

- CS 3110  System Architecture  3 CREDIT HOURS
- CS 3230  Information Management  3 CREDIT HOURS
- CS 4986  Computing Internship  3 CREDIT HOURS
- **E2: HIST 2111 OR 2112**  3 CREDIT HOURS
- CS 3280  Systems Programming  3 CREDIT HOURS

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

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

**BROADEN YOUR PERSPECTIVES**
- Ask for advice from professionals in your field of interest.
- Explore career shadowing opportunities.

**CONNECT OFF-CAMPUS**
- Explore a farmer’s market for fresh produce.
- Develop a post-graduation exercise plan.
- Explore your loan repayment options and complete your exit counseling.

**TAKE CARE OF YOURSELF**
- 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.

**PAY YOUR PATH**
- Attend an interview workshop.
- Apply for graduate programs.