ABOUT THE MAJOR

Our BS in Computer Science program offers students a focused and progressive curriculum that provides the 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?

- Al 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

COMPUTER SCIENCE ALGEBRA START

Bachelor of Science

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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!





CORE CREDIT HOURS

MAJOR CREDIT HOURS

ELECTIVE CREDIT HOURS



TERM 1: FALL

A1: ENGL 1101	3 CREDIT
English Composition I	HOURS
A2: MATH 1111	3 CREDIT
College Algebra	HOURS
B2: XIDS 2002	2 CREDIT
(Recommended) First-Year Seminar	HOURS
E3: POLS 1101	3 CREDIT
American Government	HOURS
E4: SOCIAL SCIENCE	3 CREDIT HOURS
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	3 CREDIT HOURS
B1: 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

crush 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 top of your Mathematics requirements. Complete ENGL 1101 & 1102. 	
FIND YOUR PLACE	 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. 	
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. 	



dditional Information:
One of the following lab sciences must be taken for Core Area D.1: BIOL
1107+1107L (Principles of Biology 1), BIOL 1108+1108L (Principles of
Biology II), CHEM 1211+1211L (Principles of Chemistry I), CHEM 1212+12
(Principles of Chemistry II), PHYS 2211+2211L (Principles of Physics I), or
PHYS 2212+2212L (Principles of Physics II)

REDIT HOURS CREDIT HOURS CREDIT HOURS	CRUSH YOUR Coursework	 Take a MATH course every semester until you complete your MATH requirements. Get these out of the way early! (MATH 1634, 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).
CREDIT IOURS	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.
REDIT	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.
iours Redit Jours Redit Jours Redit Jours	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.
BIOL 12+1212L	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.
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TERM 1: FALL

F: CS 2100 Introduction to Web Development	3 CREDIT HOURS
CS 3201 Program Construction I	3 CREDIT HOURS
CS 3211 Software Engineering I	3 CREDIT HOURS
CS 3110 System Architecture	3 CREDIT HOURS
F: MATH 2853 Elementary Linear Algebra	3 CREDIT HOURS

MILESTONE:

• COMPLETE MATH 2853 C OR BETTER.

TERM 2: SPRING

CS 3202	3 CREDIT
Program Construction II	HOURS
CS 3212	3 CREDIT
Software Engineering II	HOURS
CS 3151	4 CREDIT
Data Structures and Discrete Math I	HOURS
CS 3270	3 CREDIT
Intelligent Systems	HOURS
MATH 3003	3 CREDIT
Transition to Advanced Mathematics	HOURS

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

• Take a MATH course every semester until you complete your MATH requirements. Get these out of the way early! (MATH 1634, MATH 1401, MATH 2853, and MATH 3003). CRUSH YOUR COURSEWORK • 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). Regularly hang out in the 24/7 Mitchell Clifton Regularly hang out in the 2477 which en clinton 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 FIND YOUR PLACE 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. • Complete an internship in your field. CONNECT OFF-CAMPUS • 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. • Draft your resume and attend a resume blitz. Pave Your Path • Learn about how to network on social media and Draft your Pandshake profile. Draft your personal statement. Visit the graduate school to find out about graduate programs and admission requirements.



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TERM 1: FAL			
CS 3280 Systems Programming	3 CREDIT HOURS	rour Nork	 Complete your required internship experience (CS 4986). Complete your required Computing Capstone project course (CS 4982).
CS 3230 Information Management	3 CREDIT HOURS	crush your coursework	
CS 3152 Data Structures and Discrete Math II	4 CREDIT HOURS	CO	
E2: HIST 2111 OR 2112 US History	3 CREDIT HOURS	~	 Volunteer as an ACM or ACM-W officer Work on an independent study or directed research
CS/COMP ELECTIVE	3 CREDIT HOURS	FIND YOUF PLACE	project with a faculty mentor
TERM 2: SPRIN	IC	BROADEN YOUR Perspectives	 Assess your cultural competency. Consider working abroad and research visa regulations. Explore practices of creating more inclusive careers.
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CS 4986 Computing Internship	3 CREDIT HOURS	S	 Ask for advice from professionals in your field of interest.
CS 4982 Computing Capstone	3 CREDIT HOURS	CONNECT F-CAMPUS	• Explore career shadowing opportunities.
CS 4225 Distributed and Cloud Computing	3 CREDIT HOURS	CON OFF-C	
CS/COMP ELECTIVE	3 CREDIT HOURS	0	
GENERAL ELECTIVE	3 CREDIT HOURS	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.
16 FALL CREDIT HOURS + 15 SPRING = 31 CREDIT HOURS	CREDIT HOURS	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.

TERM 1: FAL			
CS 3280 Systems Programming	3 CREDIT HOURS	rour Nork	 Complete your required internship experience (CS 4986). Complete your required Computing Capstone project course (CS 4982).
CS 3230 Information Management	3 CREDIT HOURS	crush your coursework	
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