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.
### Year 1

#### Term 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: ENGL 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>A2: MATH 1113</td>
<td>Precalculus</td>
<td>4</td>
</tr>
<tr>
<td>B2: XIDS 2002</td>
<td>(Recommended) First-Year Seminar</td>
<td>2</td>
</tr>
<tr>
<td>E3: POLS 1101</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>E4: SOCIAL SCIENCE</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete ENGL 1102 C or better.
- Complete Math 1113 with a C or higher.

#### Term 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1: ENGL 1102</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>D2: MATH 1634</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>F: CS 1301</td>
<td>Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>B1: WRITTEN AND ORAL COMMUNICATION</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete ENGL 1102 C or better.
- Complete CS 1301 B or better.
- Complete Math 1634 C or better.

**Total:** 15 Fall Credit Hours + 14 Spring Credit Hours = 29 Credit Hours

### Year 2

#### Term 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: CS 1302</td>
<td>Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>F: CS 2100</td>
<td>Introduction to Web Development</td>
<td>3</td>
</tr>
<tr>
<td>F: MATH 1401</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3405</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>C1: FINE ARTS</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete CS 1302 B or better.

#### Term 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3151</td>
<td>Data Structures and Discrete Math I</td>
<td>4</td>
</tr>
<tr>
<td>CS 3270</td>
<td>Intelligent Systems</td>
<td>3</td>
</tr>
<tr>
<td>F: MATH 2853</td>
<td>Elementary Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>E1: HIST 1111 OR 1112</td>
<td>World History</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Milestones:**
- Complete Math 2853 C or better.

**Total:** 16 Fall Credit Hours + 16 Spring Credit Hours = 32 Credit Hours
### Year 3

**TERM 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3201 Program Construction I</td>
<td>3</td>
</tr>
<tr>
<td>CS 3211 Software Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>CS 3152 Data Structures and Discrete Math II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3003 Transition to Advanced Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

**D1: SCIENCE + LAB**

MILESTONES:
* Complete D1; Options found below.

**TERM 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3202 Program Construction II</td>
<td>3</td>
</tr>
<tr>
<td>CS 3212 Software Engineering II</td>
<td>3</td>
</tr>
<tr>
<td><strong>D1: SCIENCE + LAB</strong></td>
<td>4</td>
</tr>
<tr>
<td>CS/COMP ELECTIVE</td>
<td>3</td>
</tr>
</tbody>
</table>

MILESTONES:
* Complete D1; Options found below.

17 Fall Credit Hours + 13 Spring Credit Hours = 30 Credit Hours

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**TERM 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3110 System Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CS 3230 Information Management</td>
<td>3</td>
</tr>
<tr>
<td>CS 4986 Computing Internship</td>
<td>3</td>
</tr>
<tr>
<td><strong>E2: HIST 2111 OR 2112</strong></td>
<td>3</td>
</tr>
<tr>
<td>CS 3280 Systems Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

**TERM 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 4225 Distributed and Cloud Computing</td>
<td>3</td>
</tr>
<tr>
<td>CS 4982 Computing Capstone</td>
<td>3</td>
</tr>
<tr>
<td><strong>C2: HUMANITIES</strong></td>
<td>3</td>
</tr>
<tr>
<td>CS/COMP ELECTIVE</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td>2</td>
</tr>
</tbody>
</table>

15 Fall Credit Hours + 14 Spring Credit Hours = 29 Credit Hours

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**Additional Information**

- One of the following lab sciences must be taken for Core Area D:1: BIOL 1107+1107L (Principles of Biology I), BIOL 1108+1108L (Principles of Biology II), CHEM 1211+1211L (Principles of Chemistry I), CHEM 1212+1212L (Principles of Chemistry II), PHYS 2211+2211L (Principles of Physics I), or PHYS 2212+2212L (Principles of Physics II)
A1 Communication Skills
A2 Quantitative Skills
B1 Written and Oral Communications
B2 Other Institutional Options
C1 Fine Arts
C2 Humanities
D1 Natural Science
D2 Mathematics, Science, and Quantitative Technology
E1 World History
E2 American/Georgia History
E3 American/Georgia Government
E4 Social Science
F Major Courses
**Ready, Set, Go!**

**First Year**
- 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.

**Middle Years**
- Take a MATH course every semester until you complete your MATH requirements. Get these out of the way early! (MATH 1634, MATH 1401, MATH 2663, 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).

**Last Year**
- Complete your required internship experience (CS 4986)
- Complete your required Computing Capstone project course (CS 4982)

**Find Your Place**

**Broaden Your Perspectives**

**Connect Off-Campus**

**Take Care of Yourself**

**Pave Your Path**

**Explore diversity, equity, and inclusion resources and opportunities across campus.**
- Check out the education abroad office.

**Visit Wolves Vote to learn about the voting process and registration**
- Consider volunteering for a campaign or organization in your community.

**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 and Financial Literacy

**Complete a self-assessment to see what careers and majors are right for you**
- Visit Career Services
- Create your profile on Handshake
- Consider applying for an on-campus job

**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

**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

**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

**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

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

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

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

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

**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

**Assess your cultural competency**
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**Request references from professors and supervisors**
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