

## USCS: Exploratory Studies Information Science & Technology Interest

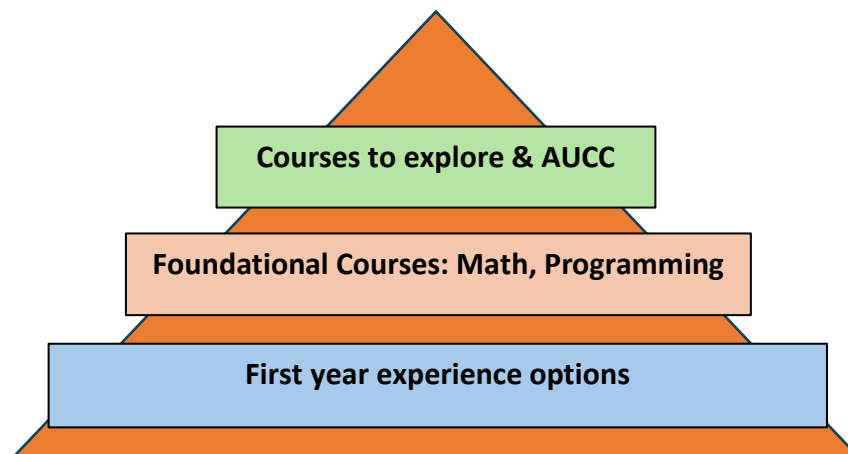
<b>CSU's Computer Science department has one major: Computer Science. Students then choose a concentration from the following:</b>		
Artificial Intelligence & Machine Learning	Computer Science Education	Computing Systems
Human Centered Computing, Networks & Security	Software Engineering	General Computer Science

**Important note:** CSU has other technology-related majors outside of the department of Computer Science, such as Business Information Systems, Journalism & Media Communication, and more. [Be sure to check out all of the options on the Exploratory Studies website.](#)

### Computer Science Entrance Requirements:

Grade of B or better in CS150B (Culture & Coding), or CS152 (Python for STEM)	C or better in any of the following: <ul style="list-style-type: none"> <li>○ CS162 (Intro to Programming Java),</li> <li>○ CS163 (CS1 Intro to Programming)</li> <li>○ CS164 (CS1 Computational Thinking with Java),</li> <li>○ MATH160 (Calculus for Physical Scientists),</li> <li>○ MATH156 (Mathematics for Computational Science 1).</li> </ul>	2.5 cumulative GPA at CSU
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**Important note:** Exploring Info-Technology-Interest students have limited "CS" classes available until they complete algebra. Students should focus on algebra in the first semester.



**The course registration pyramid – our framework for course selection**

## FIRST YEAR EXPERIENCE options – choose one:

First year experience options are for first-time, first-year students. They include a first-year seminar course designed to foster connection, academic success, and exploration. Please talk with your advisor about the option best for you.

<b>Key communities Cluster</b> (seminar + 2 AUCC classes)	<b>Seminar Super-Cluster</b> (IU172 + composition + & AUCC Arts & Humanities class)	<b>Seminar Cluster</b> (IU172 + composition class)	<b>Stand-alone seminar</b> (IU172)	<b>Explorer’s Challenge</b> (independent exploration)
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## FOUNDATIONAL computer science course options:

**Important note: All concentrations in the computer science major require calculus.** Students should complete pre-calculus in their first year at CSU. Completing the math placement tool is critical prior to orientation (or first day of classes).

1 <sup>ST</sup> Semester (algebra / pre-calculus ready)	2 <sup>nd</sup> Semester
<p><b>Math:</b></p> <ul style="list-style-type: none"> <li>1 credit pre-calculus options (MATH117, 118, 124, 125, 126 – depends on placement), OR</li> <li>Pre-Calculus course (MATH127)</li> </ul> <p><b>Computer Science (also AUCC Humanities):</b></p> <ul style="list-style-type: none"> <li>Culture and Coding: Python (CS150B)</li> </ul>	<p><b>Math:</b></p> <ul style="list-style-type: none"> <li>Mathematics for Computational Science (MATH156), OR</li> <li>Calculus 1 (MATH160)</li> </ul> <p><b>Computer Science:</b></p> <ul style="list-style-type: none"> <li>Computational Thinking with Java (CS164)</li> </ul> <p><b>DECLARE AT END OF FIRST YEAR</b></p>
1 <sup>st</sup> semester (calculus-ready)	2 <sup>nd</sup> semester
<p><b>Math:</b></p> <ul style="list-style-type: none"> <li>Mathematics for Computational Science (MATH156), OR</li> <li>Calculus 1 (MATH160)</li> </ul> <p><b>Computer Science (also AUCC Humanities):</b></p> <ul style="list-style-type: none"> <li>Culture and Coding: Python (CS150B)</li> </ul> <p><b>DECLARE AT END OF FIRST SEMESTER</b></p>	<p><b>Computer Science:</b></p> <ul style="list-style-type: none"> <li>Computational Thinking with Java (CS164)</li> </ul>

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### COURSES AVAILABLE in COMPUTER SCIENCE:

- CS201 or PHIL201 – Ethical Computing Systems (also satisfies AUCC 3B: Arts & Humanities)
- CS165: CS 2 -Data Structures
- CS220: Discrete Structures and their Applications

Please consult the curriculum guides for the Exploring Math, Physical Science & Engineering major track OR the Exploring Organization, Management & Enterprise major track for classes that help you explore technology-related majors.

**AUCC options:** Please visit <https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/>

