

Capital Scholars Honors Program Advising Guide for Computer Science Majors

CAP Honors students planning to major in Computer Science (CSC) will have a very demanding schedule and will need to plan carefully to complete all required courses within four years.

Requirements include:

CAP Requirements	39 Hrs
Foreign Language	4 (0) to 16 Hrs
Prerequisites for CSC (includes math requirement)	24 Hrs
CSC Major	36 Hrs
UIS General Education Requirements (Oral Comm, Speakers Series, Humanities)	7 Hrs
Electives	<u>0 to 7 Hrs</u>
Total	120 to 129 Hrs

The CSC Department recommends that CAP Honors/CSC students who wish to complete their B.S. in a minimum period of time continue with the foreign language they studied in high school, typically resulting in only 8 to 12 additional hours of foreign language study. Students who choose to begin a new language (or whose placement test places them in the first semester of UIS language study) will need to complete 16 hours of foreign language, potentially resulting in up to 132 hours for graduation.

CAP Honors/CSC students expecting to spend a semester abroad should plan to be gone the fall semester of Year 4. They may have to complete more than 120 hours, depending on the computer science courses available at the university they visit. The CSC elective 491, Computer Ethics, is available on-line and can be taken while abroad, and the AST requirement can also be completed while abroad. These details should be worked out with CAP and CSC advisors. **NOTE: CSC students must take one statistics course, either MAT 121: Applied Statistics or MAT 323: Probability and Statistics for Computer Science.**

Recommended Course Schedule

Year 1

Fall Semester	Hours	Spring Semester	Hours
CAP 111: Honors Composition	3	CAP 115: Interdisciplinary Writing	3
CAP 122: Who Am I?	3	CAP 121: How Do You Know?	3
MAT 115 Calculus I (or MAT 113: Business Calculus)	4	MAT 302: Discrete Mathematics	4
CSC 325: Computer Science I	4	CSC 375: Computer Science II	4
CSC 305: Entrance Assessment	0		
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>14</i>

Year 2

Fall Semester	Hours	Spring Semester	Hours
CAP 225: What Is Good?	3	CAP 226: What Is Power?	3
CAP 141: Environmental Biology & Chemistry 1	4	CAP 142: Environmental Biology & Chemistry 2	4
CSC 385: Data Structures & Algorithms	4	CAP 250: Global Issues	3
Foreign Language	4	Foreign Language	4
Visual/Performing Arts Humanities Requirement*	3	MAT 121: Applied Statistics OR MAT 323: Probability and Statistics for Computer Science (optional, recommended only for students with GPA of 3.0+)	0-4
<i>Total</i>	<i>18</i>	<i>Total</i>	<i>14-18</i>

* See General Education Course List for approved courses.