

## COMPUTER SCIENCE AND EDUCATIONAL STUDIES: *DEPARTMENT-SPECIFIC REQUIREMENTS CHART*

	<b>Course Special Major: <i>Computer Science and Educational Studies</i></b>	<b>Special Major <i>Computer Science and Educational Studies</i>, Secondary Teacher Certification</b>	<b><i>Computer Science Major and Educational Studies Minor, Secondary Teacher Certification</i></b>
Computer Science Requirements ( <i>CPSC</i> )	<b>Total: 6 credits</b> <ul style="list-style-type: none"> <li>– CPSC 021: Intro to Computer Science</li> <li>– CPSC 031: Intro to Computer Systems</li> <li>– CPSC 035: Data Structures and Algorithms</li> <li>– 2 upper level courses taken from two curricular groups               <ul style="list-style-type: none"> <li>● Group 1: CPSC 041 or CPSC 046</li> <li>● Group 2: CPSC 043, CPSC 044, CPSC 045, CPSC 075, CPSC 087, CPSC 089</li> <li>● Group 3: CPSC 040, CPSC 056, CPSC 063, CPSC 065, CPSC 066, CPSC 068, CPSC 071, CPSC 073, CPSC 081</li> </ul> </li> <li>– 1 CPSC course numbered above CPSC 035 different from choices above</li> </ul>	<b>Total: 7 credits</b> <ul style="list-style-type: none"> <li>– CPSC 021: Intro to Computer Science</li> <li>– CPSC 031: Intro to Computer Systems</li> <li>– CPSC 035: Data Structures and Algorithms</li> <li>– CPSC 043: Computer Networks</li> <li>– 2 upper level courses taken from two curricular groups               <ul style="list-style-type: none"> <li>● Group 2: CPSC 044, CPSC 045, CPSC 075, CPSC 087, CPSC 089</li> <li>● Group 3: Any course, excluding CPSC 071 and 073</li> </ul> </li> <li>– 1 CPSC course numbered above CPSC 035 different from choices above</li> </ul>	<b>Meet all Computer Science Major requirements (8 credits). The following certification classes must be in that plan:</b> <ul style="list-style-type: none"> <li>– CPSC 021: Intro to Computer Science</li> <li>– CPSC 031: Intro to Computer Systems</li> <li>– CPSC 035: Data Structures and Algorithms</li> <li>– CPSC 043: Computer Networks</li> <li>– 2 upper level courses taken from two curricular groups               <ul style="list-style-type: none"> <li>● Group 2: CPSC 044, CPSC 045, CPSC 075, CPSC 087, CPSC 089</li> <li>● Group 3: Any course, excluding CPSC 071 and 073</li> </ul> </li> </ul>
Senior Project	<b>Total: 1 credit EDUC Thesis</b>	<b>Total: 1 credit EDUC/CPSC Thesis</b>	<b>CPSC 099 Senior Comprehensive</b>
Additional Departmental Requirements	<b>One math/stat course at the level of Math 027 or above</b> (Discrete Math recommended). Stat 021 can also meet this requirement.	<b>One math/stat course at the level of Math 027 or above</b> (Discrete Math recommended). Stat 021 can also meet this requirement.	<b>See Computer Science Major requirements.</b>
Educational Studies Requirements	<b>Total: 5 credits in Educational Studies</b> EDUC 014 EDUC 021 3 additional Educational Studies credits (one of these could include the thesis, EDUC 096)	<b>Total: 9.5 credits in Educational Studies</b> – Refer to description of general Educational Studies Secondary Certification Requirements.	<b>Total: 9.5 credits in Educational Studies</b> – Refer to description of general Educational Studies Secondary Certification Requirements.

### Additional Notes:

1. The required 9.5 credits of Educational Studies certification courses are listed on the department's website.
2. Occasionally departments have special offerings that may fulfill the required content. Please meet with your advisor or department chair to discuss such opportunities.
3. The Department of Educational Studies works closely with each individual student to determine a semester-by-semester plan.
4. Please see the Chair of the Department of Educational Studies to design a plan that includes Honors.

### Mission Statement for Computer Science Education Certification Programs

The Computer Science 7-12 certification program engages students in the investigation of educational theory, policy, research, and practice. Candidates for certification develop their pedagogical content knowledge in Computer Science as well as their general knowledge of the subject. The program encourages undergraduates to think critically and creatively about the processes of teaching and learning and about the place of education in society. The program is committed to preparing students to employ evidence-based practice. Instructional practice, including the use of technology and assessments, are designed to enable preservice teachers to meet the needs of all students, including those with learning differences, and with consideration for racial, ethnic, linguistic, and/or social economic diversity.