

Computer Science Curriculum Map

Students should use this curriculum map as a guide to have a more informed discussion with the departmental academic advisor when selecting courses.

Students not taking courses as advised may result in a delayed graduation date.

<i>First Year</i>		<i>Second Year</i>		<i>Third Year</i>		<i>Fourth Year</i>	
15-16 hrs	15-16 hrs	16 hrs	17 hrs	16 hrs	16 hrs	16 hrs	16 hrs
CS 100 (1) ¹	CS 128 (3)	CS 222 (1)	CS 233 (4)	CS 210 (2) ⁹	CS 374 (4)	CS 421 (3)	CS Tech Elect (3) ¹⁰
CS 124 (3)	CS 173 (3)	CS 225 (4)	CS 361 (3)	CS 341 (4)	CS Tech Elect (3) ¹⁰	CS Adv Elect (3) ¹¹	CS Tech Elect (3) ¹⁰
MATH 221 (4) ²	MATH 231 (3)	MATH 241 (4)	MATH 257 (3) ⁷	CS 357 (3)	CS Tech Elect (3) ¹⁰	CS Adv Elect (3) ¹¹	CS Tech Elect (3) ¹⁰
ENG 100 (1) ³	Gen Ed Elect (3) ⁶	PHYS 211 (4)	PHYS 212 (4)	CS Tech Elect (3) ¹⁰	Gen Ed Elect (3) ⁶	Free Elect (3) ⁸	Free Elect (4) ⁸
RHET 105 (4) ^{4,6}	Gen Ed Elect (3) ^{4,6}	Gen Ed Elect (3) ⁶	Free Elect (3) ⁸	Free Elect (4) ⁸	Free Elect (3) ⁸	Free Elect (4) ⁸	Free Elect (3) ⁸
Science Elect (3) ⁵							

¹This optional course is highly recommended for freshmen, who may use it to help meet free elective requirements.

²MATH 220 may be substituted. MATH 220 is appropriate for students with no background in calculus. 4 of 5 credit hours count towards degree.

³External transfer students take ENG 300.

⁴RHET 105 (or an alternative Composition I sequence) is taken either in the first or second semester of the first year, according to the student's UIN (Spring if UIN is Odd). General Education Elective is taken the other semester. Composition I guidelines can be found at <http://catalog.illinois.edu/general-information/degree-general-education-requirements/> under Written Communication Requirement.

⁵Students must take one course from the Natural Science & Technology (NST) list, in addition to those take as part of the General Education requirements. The course must be one that is allowed for credit by the Grainger College of Engineering.

⁶General education: Students must complete the Campus General Education requirements including the campus general education language requirement (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT>). If the option of CS 211 is chosen, it will satisfy a core course requirement and the Campus General Education Advanced Composition requirement.

⁷MATH 415 or MATH 416 may be substituted.

⁸Additional coursework, subject to the Grainger College of Engineering restrictions to Free Electives, so that there are at least 128 credit hours earned toward the degree

⁹CS 211 may be substituted. The extra 1 credit hour difference between CS 210 and CS 211 will apply to free electives.

¹⁰CS Technical Electives, selected from dept approved list, can be found at <http://catalog.illinois.edu/undergraduate/engineering/computer-science-bs/#degreerequirementstext>. Technical elective credits totaling 18 hours to include at least three courses from a single focus area and at least one team project course.

¹¹CS Advanced Electives courses must be distinct from courses used to satisfy the technical electives. They may be chosen from CS 397 Individual Study and the 400-level coursework offered for letter grade in ANY area offered at the University of Illinois at Urbana-Champaign.