

# Curriculum Plan: Engineering Computer Science (students who entered Fall 2016 or after)

Name: \_\_\_\_\_ UIN: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_ ENG 100  
\_\_\_\_ CS 100 Freshman Orientation

**General Education Requirements**

\_\_\_\_ Composition 1  
\_\_\_\_ Advanced Composition  
\_\_\_\_ 3hrs Western  
\_\_\_\_ 3hrs Non-Western  
\_\_\_\_ 3hrs Humanities & the Arts  
\_\_\_\_ 3hrs Humanities & the Arts  
\_\_\_\_ 3hrs Social and Beh. Science  
\_\_\_\_ 3hrs Social and Beh. Science  
\_\_\_\_ 3hrs Liberal Ed. Electives-see <https://wiki.illinois.edu/wiki/display/ugadvice/>  
\_\_\_\_ 3rd Level Language

**Math & Science**

\_\_\_\_ MATH 220 or 221  
\_\_\_\_ MATH 231  
\_\_\_\_ MATH 241  
\_\_\_\_ MATH 415  
\_\_\_\_ PHYS 211  
\_\_\_\_ PHYS 212  
\_\_\_\_ Science Elective—see <http://cs.illinois.edu/academics/undergraduate/degree-program-options/bs-computer-science->

**Computer Science Courses**

\_\_\_\_ CS 125 Intro to Computer Science  
\_\_\_\_ CS 126 Software Design Studio\*  
(Prereq CS 125)  
\_\_\_\_ CS 173 Discrete Structures  
(Prereq CS 125 + CALC)  
\_\_\_\_ CS 210 Ethical & Professional Issues  
(Prereq CS 225)  
\_\_\_\_ CS 225 Data Structures  
(Prereq CS 125 & CS 173)  
\_\_\_\_ CS 233 Computer Architecture  
(Prereq CS 125 & CS 173 + (CS 225 or concurrent))  
\_\_\_\_ CS 241 System Programming  
(Prereq CS 225 + (CS 233 or concurrent))  
\_\_\_\_ CS 357 Numerical Methods I  
(Prereq 1-- CS course, MATH 225 or 415 & MATH 241)  
\_\_\_\_ CS 361 Probability & Stats for CS  
(Prereq Math 220 or 221 and MATH 225 or 415)  
\_\_\_\_ CS 374 Algorithms & Models of Comp  
(Prereq CS 173 & CS 225)  
\_\_\_\_ CS 421 Progrmg Languages & Compilers  
(Prereq CS 233 & CS 374)

\* Students who entered before 2016 take CS 242

**18 hrs Technical Electives** (Minimum 6 CS courses, 3 must be from one focus area & 1 must satisfy the team project)

\_\_\_\_ CS tec elec  
\_\_\_\_ CS tec elec  
\_\_\_\_ CS tec elec  
\_\_\_\_ CS tec elec  
\_\_\_\_ CS tec elec  
\_\_\_\_ CS tec elec/team project

<http://cs.illinois.edu/academics/degree-program-options/bs-computer-science-engineering>

Advanced Electives (6 hrs of 400 level credit from any area and can be additional CS courses, CS 397 may be used here)

\_\_\_\_ 400 level in ANY Dept  
\_\_\_\_ 400 level in ANY Dept

**Additional Notes**

\_\_\_\_ 128 hours required for graduation

\*\*\*Some courses are offered fall-only or spring-only. Be sure to plan ahead!

\*\*\*Working ahead in your CS coursework does not guarantee entrance into the next CS course.

Prerequisites means you should have a successful grade earned before continuing.

