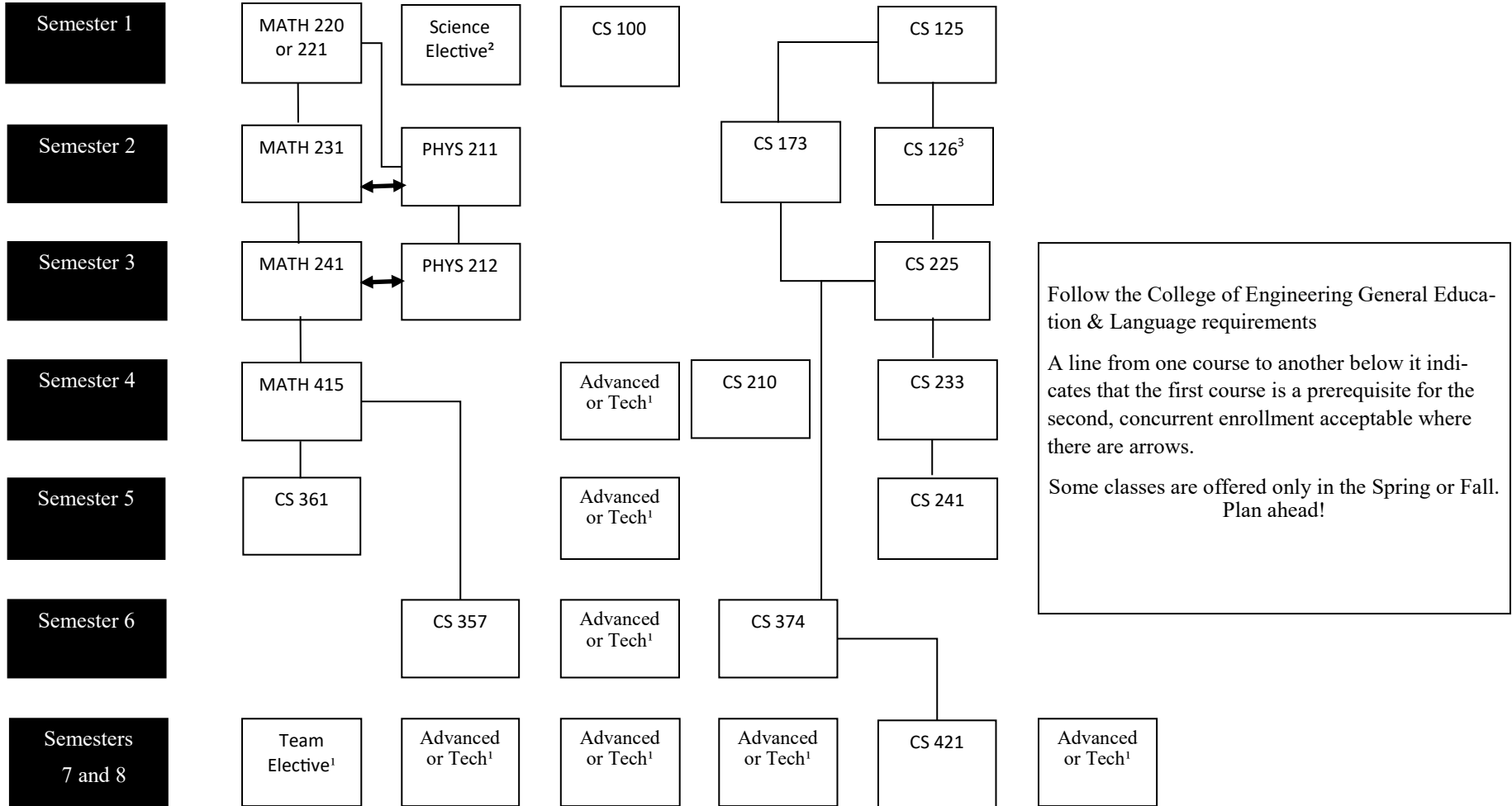


# Curriculum Flow Chart for the Computer Science in Engineering Major



<sup>1</sup> A total of eight electives are required: Six course that total 18hrs of CS Technical, one of the six must satisfy the team project requirement and three from one focus area. Two Advanced courses at the 400-level in any field (CS 397 will count towards advanced courses but not Tech electives). See department website for up to date listings.

<sup>2</sup> One Science elective. Check the CS website or check with a CS advisor for most up to date list.

<sup>3</sup> If credit is earned for CS 225 and not yet taken CS 126, students must take CS 242 to meet degree requirements.

# Curriculum Plan: Engineering Computer Science (students who entered Fall 2018 or after)

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

<p>_____ ENG 100 (ENG 300 for transfer students)</p> <p><b>General Education Requirements</b></p> <p>_____ Composition 1</p> <p>_____ Advanced Composition</p> <p>_____ 3rd Level Language</p> <p>-----</p> <p>Those listed below must equal 18 total separate hours</p> <p>_____ 3hrs Humanities and the Arts</p> <p>_____ 3hrs Humanities and the Arts</p> <p>_____ 3hrs Social and Beh. Science</p> <p>_____ 3hrs Social and Beh. Science</p> <p>_____ 3hrs Western</p> <p>_____ 3hrs Non-Western</p> <p>_____ 3hrs US Minority (FA18 &amp; after)</p>	<p><b>Computer Science Courses</b></p> <p>_____ CS 100 1hr, Freshman Orientation</p> <p>_____ CS 125 4hrs, Intro to Computer Science</p> <p>_____ CS 126 3hrs, Software Design Studio (Prereq CS 125) transfer students with 225 credit must take CS 242 to meet degree requirements</p> <p>_____ CS 173 3hrs, Discrete Structures (Prereq CS 125 and CALC)</p> <p>_____ CS 210 2hrs, Ethical &amp; Professional Issues (Prereq CS 225)</p> <p>_____ CS 225 4hrs, Data Structures (Prereq CS 125 and CS 173)</p> <p>_____ CS 233 4hrs, Computer Architecture (Prereq CS 125 and CS 173; CS 225 or concurrent)</p> <p>_____ CS 241 4hrs, System Programming (Prereq CS 225; CS 233)</p> <p>_____ CS 357 3hrs, Numerical Methods I (Prereq 1-- CS course, MATH 241; MATH 225 or 415)</p> <p>_____ CS 361 3hrs, Probability and Stats for CS (Prereq Math 220 or 221; MATH 225 415, 416 or concurrent)</p> <p>_____ CS 374 4hrs, Algorithms and Models of Comp (Prereq CS 225)</p> <p>_____ CS 421 3hrs, Programing Languages and Compilers (Prereq CS 233 and CS 374)</p>	<p><b>18hrs CS Tech Electives &amp; Advanced Electives</b> (Minimum six CS courses, three must be from one focus area &amp; one must satisfy the team project)</p> <p>_____ CS tech electives</p> <p>_____ CS tech electives</p> <p>_____ CS tech electives</p> <p>_____ CS tech electives</p> <p>_____ CS tech electives</p> <p>_____ CS tech electives/team project</p> <p>Check CS departmental website to determine if a course falls into a focus area.</p> <p><b>Advanced Electives</b> (six hrs of 400 level credit from any area and can be additional CS courses, CS 397 may be used here)</p> <p>_____ 400 level in <u>ANY</u> Department</p> <p>_____ 400 level in <u>ANY</u> Department</p>
<p><b>Math &amp; Science</b></p> <p>_____ MATH 221 CALC I 4hrs or MATH 220 CALC 4hrs max for ENG degrees</p> <p>_____ MATH 231 3hrs, CALC II</p> <p>_____ MATH 241 4hrs, CALC III</p> <p>_____ MATH 415 3hrs, Applied Linear Algebra</p> <p>_____ PHYS 211 4hrs, Univ. Physics: Mechanics</p> <p>_____ PHYS 212 4hrs, Univ Physics: Elec &amp; Mag</p> <p>_____ Science Elective—Check CS departmental website for complete list</p>		<p><b>Additional Notes</b></p> <p>_____ <b>128 hours required for graduation</b></p> <p>Working ahead in your CS coursework does not guarantee entrance into the next CS course.</p> <p>Prerequisites means you need to have a successful grade earned before continuing.</p>