

CS Minor for CpE Majors

The following substitutions will be made after the application to minor in Computer Science has been approved:

<u>ECE courses</u>	substituted for	<u>CS courses</u>
ECE 1574		CS 1114 ¹
ECE 2574		CS 2114 ¹
ECE 2504		CS 2505 ²

Footnotes

¹ CS 1114 and 2114 are taught using the Java programming language. It is strongly recommended that students with no Java experience acquire background in that language before attempting a CS course that has CS 2114 as a prerequisite, e.g., CS 3114.

² Students wishing to take CS 3214 (Computer Systems) may use ECE 2534+2524 for the CS 2506 prerequisite to CS 3214. Note that ECE 2504 alone will not satisfy the CS 2505 prerequisite to CS 2506. Students should plan to take either (CS 2505 and 2506) or (ECE 2504 and 2534 and 2524), rather than mix and match CS and ECE computer organization courses.

All CS majors and minors (including CpE's minoring in CS) must earn a C (2.0) or better in all CS courses used as a prerequisite or co-requisite for other Computer Science courses. This rule also holds for ECE/ECPE courses substituted for CS courses.

To apply for the minor in CS, ECE students must have taken at least one CS course that counts for the minor and earned a grade of C (2.0) or better.

The College of Engineering accepts applications to declare a CS minor three times per year (end of spring, end of summer, and end of fall). The specific dates can be found on the EngE Homepage. (<http://www.enge.vt.edu/undergraduate/undergraduate-changing-majors.html>)

**College of Engineering
 Department of Computer Science
 Minor in Computer Science
 Students Graduating in Calendar Year 2018**

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CS 1114 ¹	Intro to Software Design	3 <u>sub ECE 1574</u>
CS 2114 ²	Softw Des & Data Structures	3 <u>sub ECE 2574</u>
CS 2505 ³	Intro to Computer Organization	3 <u>sub ECE 2504</u>
CS 3114 ⁴	Data Structures & Algorithms	3 _____
CS 3/4XXX	CS Elective	3 _____
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Total		18 hours

Footnotes

- ¹ Prerequisite is EngE 1215 or programming experience in C++ or Java.
- ² Co-requisite is Math 1225 (Math 1025 and 1525 will also satisfy the co-requisite).
- ³ Co-requisite is Math 2534.
- ⁴ Prerequisite is Math 2534.

Additional Requirements and Comments

- A. CS minors must earn at least a “C” (2.0) in CS 1114, CS 2114, and CS 2505.
- B. Students must have a CS minor GPA of at least 2.0 to successfully complete the minor. The CS minor GPA includes all courses with the CS designator.
- C. The following courses are not allowed for CS minor credit: CS 3604, 4004, 4014.