



VANDERBILT School of Engineering

Four-Year Roadmap and Checklist ELECTRICAL AND COMPUTER ENGINEERING 122 hours

To be eligible for graduation, a student must have passed all required courses, including the technical electives, and shall have earned a minimum average grade of C in (a) all courses taken, (b) courses taken within the School of Engineering, and (c) department courses of each major.

Year 1	
Semester 1	Semester 2
___(4 hours) CHEM 1601+1601L	___(3 hours) CS 1100 or CS 1101
___(4 hours) MATH 1300	___(4 hours) MATH 1301
___(3 hours) ES 1401-1403	___(4 hours) PHYS 1601+1601L
___(3 hours) Liberal Arts Core	___(4 hours) MSE 1500+1500L or CHEM 1602/L
___Total: 14 hours	___Total: 15 hours
Year 2	
Semester 3	Semester 4
___(4 hours) ECE 2112 + 2112L	___(4 hours) MATH 2400
___(3 hours) CS 2201 or 2204	___(4 hours) ECE 2123+2123L
___(3 hours) MATH 2300	___(3 hours) ECE 2214
___(4 hours) PHYS 1602+1602L	___(3 hours) Elective*
___(3 hours) Liberal Arts Core	___(3 hours) Liberal Arts Core
___Total: 17 hours	___Total: 17 hours
Year 3	
Semester 5	Semester 6
___(4 hours) ECE 3235+3235L	___(3 hours) ES 2100W
___(3 hours) MATH 2810	___(3 hours) ECE Program Elective*
___(3 hours) ECE Program Elective*	___(3 hours) ECE Program Elective*
___(3 hours) Elective*	___(3 hours) Technical Elective
___(3 hours) Liberal Arts Core	___(3 hours) Liberal Arts Core
___Total: 16 hours	___Total: 15 hours
Year 4	
Semester 7	Semester 8
___(3 hours) ECE 4950	___(3 hours) ECE 4951
___(1 hours) ECE 4959	___(3 hours) ECE Program Elective
___(3 hours) ECE Program Elective*	___(3 hours) Technical Elective
___(3 hours) ECE Program Elective*	___(3 hours) Open Elective
___(3 hours) Liberal Arts Core	
___(3 hours) Technical Elective	
___Total: 16 hours	___Total: 12 hours

*CS 3251 (Intermediate Software Design) is recommended in spring of the sophomore year as preparation for advanced computer science courses, with a technical elective taken in fall of the junior year. Otherwise, students may choose a technical elective in spring of the sophomore year and an ECE program elective in fall of the junior year. **At least one design domain expertise (DE) course required prior to ECE 4951.**