Begin to earn credits toward a Master's Degree while taking undergraduate courses!
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Bachelor of ELECTRICAL ENGINEERING & COMPUTER SCIENCE

4-Year Recommended Course Sequence with *Calculus Entry*

Updated July 2026

Fall Semester 1	Spring Semester 2	Fall Semester 3	Spring Semester 4	Fall Semester 5	Spring Semester 6	Fall Semester 7	Spring Semester 8
☆ **INQ 170 [3]** Inquiry Launch to Engineering	**CIS 260 [4]** Introduction to Programming (CIS 151 or ESC 151)	**EEC 310 [4]** Electric Circuits I (*INQ 170, *ESC 250 or *MTH 286, *MTH 284, *PHY 242)	**EEC 313 [3]** Electronics I (EEC 310)	**EEC 383 [3]** Digital Systems (*EEC 310 or *PHY 242)	**CIS 345 [3]** Operating Systems (CIS 340)	**EEC 493 [3]** Senior Design I Or **CIS 493 [3]** Senior Design I	**EEC 494 [3]** Senior Design II (EEC 493) Or **CIS 494 [3]** Senior Design II
ESC 151 [3] C Programming Or **CIS 151 [3]** Invitation to Computing	**PHY 241 [5]** Physics I (MTH 181)	**PHY 242 [5]** Physics II (PHY 241, MTH 182)	**EEC 311 [4]** Circuits II (EEC 310- C or better)	**CIS 340 [3]** Systems Programming (CIS 265)	**CIS 390 [3]** Introduction to Algorithms (CIS 265 & MTH 220)	**ESC 282 [3]** Engineering Economy (MTH 182)	**EEC 417 [3]** Embedded Systems (EEC 383)
MTH 181 [4] Calculus I	**MTH 182 [4]** Calculus II (MTH 181)	**MTH 288 [3]** Linear Algebra (MTH 182- C or better)	**EEC 316 [2]** Electric Devices Lab (*EEC 310 & *EEC 313)	**CIS 335 [3]** Language Processor (CIS 265)	**CIS 480 [3]** Computer Architecture (CIS 265)	**Complexities of Pluralistic Society Elective [3]**	**EEC 440 [3]** Control Systems (EEC 383)
ENG 100 [3] Intensive Writing or **ENG 101 [3]** College Writing I	**ENG 102 [3]** College Writing II (ENG 101) OR **ENG 108 [3]** AI & Writing (Preferred) (ENG 101)	**ESC 250 [3]** Diff EQ for Eng. (MTH 182) OR **MTH 286 [3]** Intro. to Diff EQ (MTH 182- C or better)	**CIS 265 [3]** Data Structures & Algorithms (CIS 260 & MTH 182)	**MTH 220 [3]** Discrete Mathematics (MTH 182)	**EEC 384 [2]** Digital Systems Lab (EEC 383)	**EEC 414 [2]** Technical Communication (PHL 215)	**General Elective [3]**
Society and Human Behavior Elective [3]		**Global Human Perspectives Elective [3]**	**PHL 216 [3]** AI & Data Ethics	**ESC 310 [3]** Statistics & Prob. (MTH 182)	**EEC 318 [3]** Analysis, Des. & Sim. Of Dyn. Systems (EEC 311)	**American Civic Literacy Elective [3]**	
			****ESC 130 [1]** Engineering & Computer Science Career Preparation				
16 Total Credit Hours	16 Total Credit Hours	18 Total Credit Hours	15 or 16 Total Credit Hours	15 Total Credit Hours	14 Total Credit Hours	14 Total Credit Hours	12 Total Credit Hours

Total Credits for EE Degree: 120 or 121 with **ESC 130

(Prerequisites) • (*Pre/co-requisite) • [# of Course Credits] • EEC XXX = Only Offered That Fall/Spring Semester