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Bachelor of ELECTRICAL ENGINEERING (EE)

4-Year Recommended Course Sequence with *Calculus Entry*

Click on the Course Name to access the course in the Undergraduate Catalog 24-25

Updated July 2025

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	**ESC 151 [3]** C Programming	**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 311)	**EEC 383 [3]** Digital Systems (*EEC 310 or *PHY 242)	**EEC 441 [2]** Control Systems Laboratory (*EEC 440)	**EEC 493 [2]** Senior Design I (*EEC 440 or *EEC 450 or *EEC 470)	**EEC 494 [3]** Senior Design II (EEC 493)
CHM 261 [3] Gen. Chem. I **CHM 266 [1]** Gen. Chem. Lab	**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)	**EEC 314 [3]** Electronics II (EEC 311, EEC 313, *EEC 315)	**EEC 460 [4]** Engr. Electro-magnetics (PHY 242, EEC 361)	**EEC 450 [3]** Communications (ESC 310, EEC 313, EEC 318)	****EEC Tech Elective [3]** 300-400 Level
MTH 181 [4] Calculus I	**MTH 182 [4]** Calculus II (MTH 181)	****ESC 130 [1]** Engineering & Computer Science Career Preparation	**EEC 312 [2]** Electric Circuits Lab (*EEC 310)	**EEC 315 [2]** Electronics Lab (EEC 312, *EEC 313)	****EEC Tech Elective [3]** 300-400 Level	**EEC 451 [2]** Comm. Lab (EEC 315 or EEC 316, *EEC 450)	****EEC Tech Elective [3]** 300-400 Level
ENG 100 [3] Intensive Writing **or** **ENG 101 [3]** College Writing I	**ENG 108 [3]** AI & Writing (Preferred) (ENG 101) **OR** **ENG 102 [3]** College Writing II (ENG 101)	**ESC 250 [3]** Diff EQ for Eng. (MTH 182) **OR** **MTH 286 [3]** Intro. to Diff EQ (MTH 182- C or better)	**EEC 318 [3]** Signals & Systems (*EEC 311)	**American Civic Literacy Elective [3]**	**EEC 384 [2]** Digital Systems Lab (EEC 383)	**EEC 470 [3]** Power Electronics I (EEC 314, EEC 318, EEC 361)	**Complexities of Pluralistic Society Elective [3]**
Society and Human Behavior Elective [3]		**MTH 283 [2]** Multivariable Calculus (MTH 182- C or better)	**PHL 215 [3]** Technology Ethics **HCC Elective**	**EEC 414 [2]** Technical Communication (PHL 215)	**EEC 440 [3]** Control Systems (EEC 315, EEC 318)	**EEC 471 [2]** Power Electro. & Lab (EEC 470)	**ESC 282 [3]** Engineering Economy (MTH 182)
		MTH 284 [2] Matrices for Engineers (MTH 182- C or better)		**EEC 361 [3]** Electromechanical Energy Conversion (EEC 311, MTH 283)	**ESC 310 [3]** Statistics & Prob. (MTH 182) **OR** **STA 323 [3]** Statistical Methods (MTH 182- C or better)	**Global Human Perspectives Elective [3]**	
17 Total Credit Hours	**15 Total Credit Hours**	**17 Total Credit Hours**	**15 Total Credit Hours**	**16 Total Credit Hours**	**17 Total Credit Hours**	**15 Total Credit Hours**	**15 Total Credit Hours**

Total Credits for EE Degree: 126 (or 127 with **ESC 130)

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

- Required EEC Courses ****ESC 130 is** Highly recommended, yet optional.
- Required Science Courses
- Required English Courses
- Required Writing Across the Curriculum (WAC) Courses
- Required EEC Electives ****3 semesters of co-op can replace one elective**
- Required Math Courses
- Core Curriculum Electives

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500-level courses that satisfy Undergraduate and Master's degree credits

★ **ESC 120** Intro to Engineering Design can replace **INQ 170** for transfer students and students who completed an inquiry launch course other than INQ 170. Neither course is required for transfer students with an Associates of Applied Science degree.

↓ Scroll Down to View the Precalculus Entry 4-Year Plan Degree Chart

Begin to earn credits toward a Master's Degree while taking undergraduate courses!
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Bachelor of ELECTRICAL ENGINEERING (EE)

4-Year Recommended Course Sequence with *Precalculus Entry*

CLICK HERE to access Course Catalog Descriptions

Updated July 2025

Fall Semester 1	Spring Semester 2	Summer Semester #1	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	Global Human Perspectives Elective [3]		PHY 241 [5] Physics I (MTH 181)	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 311)	EEC 440 [3] Control Systems (EEC 315, EEC 318)	EEC 493 [2] Senior Design I (*EEC 440 or *EEC 450 or *EEC 470)	EEC 494 [3] Senior Design II (EEC 493)
MTH 165 [3] Intensive Precalc I OR MTH 167 [3] Precalculus I	MTH 168 [3] Precalculus II (MTH 165 or MTH 167)	PHL 215 [3] Technology Ethics HCC Elective	CHM 261 [3] Gen. Chem. I CHM 266 [1] Gen. Chem I Lab (MTH 168)	PHY 242 [5] Physics II (PHY 241, MTH 182)	EEC 312 [2] Circuits Lab (*EEC 310)	EEC 314 [3] Electronics II (EEC 311, EEC 313, *EEC 315)	EEC 470 [3] Power Electronics I (EEC 314, EEC 318, EEC 361)	EEC 460 [4] Engineering Electromagnetics (PHY 242, EEC 361)
ENG 100 [3] Intensive Writing or ENG 101 [3] College Writing I	ENG 108 [3] AI & Writing (Preferred) (ENG 101) OR ENG 102 [3] College Writing II (ENG 101)		MTH 182 [4] Calculus II (MTH 181- C or better)	MTH 286 [3] Intro. to Diff EQ (MTH 182- C or better) OR ESC 250 [3] Diff EQ for Eng. (MTH 182- C or better)	EEC 311 [4] Circuits II (EEC 310- C or better)	EEC 361 [3] Electro-Mech Energy conv. (EEC 311, MTH 283)	EEC 471 [2] Power Electro. & Lab (EEC 470)	ESC 282 [3] Engr. Economy (MTH 182)
Society and Human Behavior Elective [3]	Complexities of Pluralistic Society Elective [3]	OPSTEM MTH 180 SUMMER CALCULUS I (Average B- or better in MTH 167&168) [4]	ESC 151 C Programming [3] (MTH 168)	MTH 283 [2] Multivariable Calculus (MTH 182- C or better)	EEC 383 [3] Digital Systems (*EEC 310, *PHY 242)	EEC 318 [3] Signals & Systems (*EEC 311)	EEC 450 [3] Communications (ESC 310, EEC 313, EEC 318)	EEC 384 [2] Digital Systems Lab (EEC 383)
American Civic Literacy Elective [3]			**ESC 130 [1] Engineering Co-op Orientation	MTH 284 [2] Matrices (MTH 182)	ESC 310 [3] Statistics & Prob. (MTH 182) OR STA 323 [3] Statistical Methods (MTH 182- C or better)	EEC 441 [2] Control Systems Lab (*EEC 440)	EEC 451 [2] Comm. Lab (EEC 315 or EEC 316, *EEC 450)	**EEC/CIS Tech Elective [3] 300-400 Level
					EEC 414 [2] Writing in ECE (PHL 215)	EEC 315 [2] Electronics Lab (EEC 312, *EEC 313)	**EEC/CIS Tech Elective [3] 300-400 Level	**EEC/CIS Tech Elective [3] 300-400 Level
14 Total Credit Hours	13 Total Credit Hours	7 Total Credit Hours	15 Total Credit Hours	16 Total Credit Hours	17 Total Credit Hours	16 Total Credit Hours	15 Total Credit Hours	16 Total Credit Hours

Total Credits for EE Degree: 132 or 133 including ESC 130 Engineering Co-op Orientation

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

- Required EEC Courses **ESC 130 is highly recommended, yet optional
- Required Science Courses
- Required English Courses
- Required Writing Across the Curriculum (WAC) Courses
- Required EEC Electives **3 semesters of co-op can replace one elective
- Required Math Courses
- Core Curriculum Electives

★**ESC 120** Intro to Engineering Design can replace **INQ 170** for transfer students and students who completed an inquiry launch course other than INQ 170. Neither course is required for transfer students with an Associates of Applied Science degree.

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500-level courses that satisfy Undergraduate and Master's degree credits

↓ Scroll Down to View the Precalculus Entry 5-Year Plan Degree Chart↓

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Bachelor of ELECTRICAL ENGINEERING (EE)

5-Year Recommended Course Sequence with *Precalculus Entry*

CLICK HERE to access Course Catalog Descriptions

Updated July 2025

Fall Semester 1	Spring Semester 2	Fall Semester 3	Spring Semester 4	Fall Semester 5	Spring Semester 6	Fall Semester 7	Spring Semester 8	Fall Semester 9	Spring Semester 10
☆ INQ 170 [3] Inquiry Launch to Engineering	ENG 108 [3] AI & Writing (Preferred) (ENG 101) or ENG 102 [3] College Writing II	CHM 261 [3] Gen. Chem. I CHM 266 [1] Gen. Chem I Lab (MTH 168)	PHY 241 [5] Physics I (MTH 181)	EEC 310 [4] Electric Circuits I (*INQ 170, *ESC 250 or *MTH 286, *MTH 284, *PHY 242)	MTH 283 [2] Multivariable Calculus for Eng. (MTH 182)	EEC 383 [3] Digital Systems (*EEC 310 or *PHY 242)	EEC 384 [2] Digital Systems Lab (EEC 383)	EEC 493 [2] Senior Design I (*EEC 440 or *EEC 450 or *EEC 470)	EEC 494 [3] Senior Design II (EEC 493)
MTH 165 [3] Intensive Precalc I OR MTH 167 [3] Precalculus I	MTH 168 [3] Precalculus II (MTH 165, MTH 167- C or better)	MTH 181 [4] Calculus I (MTH 168- C or better)	MTH 182 [4] Calculus II (MTH 181- C or better)	PHY 242 [5] Physics II (PHY 241, MTH 182)	EEC 313 [3] Electronics I (EEC 310, *EEC 311)	EEC 315 [2] Electronics Lab (EEC 312,*EEC 313)	EEC 361 [3] Electro-Mech Energy conv. (EEC 311, MTH 283)	EEC 450/451 [5] Comm. & Lab (EEC 313, ESC 310, EEC 318)	EEC 460 [4] Engr. Electro-magnetics (PHY 242, EEC 361)
ENG 100 [3] Intensive Writing or ENG 101 [3] College Writing I	American Civic Literacy Elective [3]	PHL 215 [3] Technology Ethics HCC Elective	Complexities of Pluralistic Society Elective [3]	ESC 250 [3] Diff EQ for Eng. (MTH 182) OR MTH 286 [3] Intro. to Diff EQ (MTH 182- C or better)	EEC 311 [4] Circuits II (EEC 310- C or better)	ESC 310 [3] Statistics and Probability (MTH 182) OR STA 323 [3] Statistical Methods (MTH 182)	EEC 318 [3] Signals & Systems (*EEC 311)	EEC 470/471 [5] Power & Electronics Lab (EEC 314, EEC 361, EEC 318)	**EEC/CIS Tech Elective [3] 300-400 Level
Society and Human Behavior [3]	Global Human Perspectives Elective [3]	ESC 151 [3] C Programming (MTH 168)		MTH 284 [2] Matrices (MTH 182)	EEC 312 [2] Circuits Lab (*EEC 310)	EEC 314 [3] Electronics II (EEC 311, EEC 313, *EEC 315)	EEC 440 [3] Control Systems (EEC 315, EEC 318)	**EEC/CIS Tech Elective [3] 300-400 Level	**EEC/CIS Tech Elective [3] 300-400 Level
		**ESC 130 [1] Engineering Co-op Orientation			ESC 282 [3] Engineering Economy (MTH 182)	EEC 414 [2] Writing in ECE (PHL 215)	EEC 441 [2] Control Systems Lab (*EEC 440)		
12 Total Credit Hours	12 Total Credit Hours	15 Total Credit Hours	14 Total Credit Hours	14 Total Credit Hours	14 Total Credit Hours	13 Total Credit Hours	13 Total Credit Hours	15 Total Credit Hours	13 Total Credit Hours

Total Credits for EE Degree: 132 or 133 including ESC 130 Engineering Co-op Orientation

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

- Required EEC Courses ** **ESC 130 is** Highly recommended, yet optional.
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