

# B.S. in Electrical Engineering

## Electrical Engineering - General

### Freshman Year

Fall		Credits
COM 122	English Composition	3
	Humanities or Social Science Lower-Level or Upper-Level Elective	3
EGR 101	Introduction to Engineering	2
EGR 115	Introduction to Computing for Engineers	3
MA 241	Calculus and Analytical Geometry I	4
UNIV 101	College Success	(1)

**Credits Subtotal 15.0**

### Spring

CEC 220	Digital Circuit Design	3
CEC 222	Digital Circuit Design Laboratory	1
	Humanities Lower-Level Elective	3
MA 242	Calculus and Analytical Geometry II	4
PS 161	Physics I & II for Engineers	4

**Credits Subtotal 15.0**

### Sophomore Year

Fall		Credits
COM 221	Technical Report Writing (Must earn a C or better to pass COM 221)	3
CS 125	Computer Science I	4
MA 243	Calculus and Analytical Geometry III	4
PS 250	Physics for Engineers III	3
PS 253	Physics Laboratory for Engineers	1

**Credits Subtotal 15.0**

### Spring

CEC 320	Microprocessor Systems	3
CEC 322	Microprocessor Systems Laboratory	1
COM 219	Speech	3
EE 223	Linear Circuits Analysis I	3
EE 224	Electrical Engineering Laboratory I	1
MA 345	Differential Equations and Matrix Methods	4

**Credits Subtotal 15.0**

### Junior Year

Fall		Credits
EE 302	Electronic Devices and Circuits	3
EE 304	Electronic Circuits Laboratory	1
EE 314	Signal and Linear System Analysis	3
EE 315	Signal and Linear System Analysis Laboratory	1
ES 207	Fundamentals of Mechanics	3
MA 441	Mathematical Methods for Engineering and Physics I	3
	Technical Elective	3

**Credits Subtotal 17.0**

### Spring

EE 340	Electric and Magnetic Fields	3
EE 401	Control Systems Analysis and Design	3
EE 402	Control Systems Laboratory	1
	Engineering Science Core Selection	3
ES 312	Energy Transfer Fundamentals	3

MA 412	Probability and Statistics	3
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**Credits Subtotal 16.0**

### Senior Year

#### Fall

EE 410	Communication Systems	3
EE 412	Communication Systems Laboratory	1
EE 420	Electrical Engineering Capstone I	3
EE 450	Elements of Power Systems	3
EE 452	Power Systems Laboratory	1
	Technical Electives	6

**Credits Subtotal 17.0**

#### Spring

	Advanced Electives / EE 4xx	6-7
EC 225	Engineering Economics	3
EE 421	Electrical Engineering Capstone II	3
HU 330	Values and Ethics	3
or HU 335	Technology and Modern Civilization	

**Credits Subtotal 15.0-16.0**

**Credits Total: 125.0-126.0**