

ELECTRICAL ENGINEERING DEGREE PLAN

Total Credits for Bachelor's Degree in Electrical Engineering: 129

First Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	ENG100	English Composition	3	Placement Test
	HUM120 or HUM130	Nature and History of Western Art Modern Art History	3	None
	MATH133	Calculus I	5	MATH116 or placement exam
	SWE110	C Programming	4	High School Algebra
Second Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	HUM122 or HUM125	World Music Music in Western Cultures	3	None
	HUM200	History of the Modern World	3	ENG100
	MATH134	Calculus II	5	MATH133
	SCI145	College Physics I	4	MATH133
Third Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	MATH235	Calculus III	5	MATH134
	MATH377	Software Engineering Mathematics	3	MATH133
	SCI245	College Physics II	4	SCI145
	SWE310	Data Structures and Algorithms	4	SWE110, Co-requisite MATH377
Fourth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ENG210	Cultural Diversity in Lit.	3	ENG100 , HUM120 or 130, HUM122 or 125
	ELE270	Introduction to Circuits	4	MATH134, SCI245
	ELE350	Digital Circuits and Systems	4	SCI245
	HUM227 or HUM230	Film History History of Animation	3	ENG100
	SCI361	Semiconductor Physics	3	MATH134, SCI245

Fifth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ELE312	Signals and Systems	3	ELE270, MATH235
	ELE313	Advanced EE Mathematics I	3	ELE312 or permission of the Instructor
	ELE320	Electronic Devices I	4	ELE270
	SCI	Science Elective	4	
	SSC200	American Government	3	ENG100

Sixth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ELE321	Electronic Devices II	4	ELE320
	ELE366	Sequential Logic Design	4	ELE350
	ELE/MATH/ SWE	Upper Division Technical Electives	3	
	ELE413	Advanced EE Mathematics II	3	ELE313
	SSC332	Global Political Economics	3	HUM200, SSC200

Seventh Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ELE370	Computer Architecture	4	ELE366
	ELE385	Field and Waves	3	ELE313
	ELE410	Control Systems	4	ELE321, ELE350
	ENG310 or ENG320 or	Classics of Western Drama Classics of World Drama English 300-level elective	3	ENG210, HUM120 or 130, HUM 122 or 125 ENG210, HUM227 or 230
	HUM361	Contemporary Ethical Issues	3	HUM200, SSC200, ENG210

Eighth Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	ELE420	Communication Systems	3	ELE313, ELE321
	ELE487	Advanced Computer Architecture	3	ELE370
	ELE/MATH/ SWE	Upper Division Technical Electives	3	
	ELE495	Senior Project	3	Senior Standing
	HUM400	General Education Capstone Project	3	ENG310 or 320, SSC332, HUM361

**ELECTRICAL ENGINEERING DEGREE PLAN
AUDIO ENGINEERING SPECIALIZATION**

Total Credits for Bachelor's Degree in Electrical Engineering: 129

First Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	DAT110	Desktop Production Fundamentals	3	None
	MATH133	Calculus I	5	MATH116 or placement exam
	ENG100	English Composition	3	Placement Test
	SWE110	C Programming	4	High School Algebra

Second Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	HUM120 or HUM130	Nature and History of Western Art Modern Art History	3	None
	DAT115	Desktop Audio Production	3	DAT110
	MATH134	Calculus II	5	MATH133
	SCI145	College Physics I	4	MATH133

Third Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	MATH235	Calculus III	5	MATH134
	MATH377	Software Engineering Mathematics	3	MATH133
	SCI245	College Physics II	4	SCI145
	SWE310	Data Structures and Algorithms	4	SWE110, Co-requisite: MATH377

Fourth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	DAT210	Sound Synthesis and Orchestration	3	DAT115
	ELE270	Introduction to Circuits	4	MATH134, SCI245
	ELE350	Digital Circuits and Systems	4	SCI245
	HUM122 or HUM125	World Music Music in Western Cultures	3	None
	SCI361	Semiconductor Physics	3	MATH134, SCI245

Fifth Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	ELE312	Signals and Systems	3	ELE270, MATH235
	ELE320	Electronic Devices I	4	ELE270
	ENG210	Cultural Diversity in Lit.	3	ENG100 , HUM120 or 130, HUM122 or 125
	HUM200	History of the Modern World	3	ENG100
	SSC200	American Government	3	ENG100

Sixth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	DAT220	Studio Recording I	3	DAT115
	ELE313	Advanced EE Mathematics I	3	ELE312 or permission of the Instructor
	ELE321	Electronic Devices II	4	ELE320
	ELE366	Sequential Logic Design	4	ELE350
	HUM227 or HUM230	Film History History of Animation	3	ENG100

Seventh Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	DAT330	Principles of Digital Audio	3	MATH120 or Consent of instructor
	DAT ELECT	Upper Division Elective	1	
	ENG310 or ENG320 or	Classics of Western Drama Classics of World Drama English 300-level elective	3	ENG210, HUM120 or 130, HUM 122 or 125 ENG210, HUM227 or 230
	HUM361	Contemporary Ethical Issues	3	HUM200, SSC200, ENG210
	SCI	Science Electives	4	
	SSC332	Global Political Economics	3	HUM200, SSC200

Eighth Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	DAT460	Digital Audio Electronics	3	DAT210, ELE350
	ELE370	Computer Architecture	4	ELE366
	ELE413	Advanced EE Mathematics II	3	ELE313
	ELE495	Senior Project	3	Senior Standing
	HUM400	General Education Capstone Project	3	ENG310 or 320, SSC332, HUM361

ELECTRICAL ENGINEERING DEGREE PLAN ROBOTICS SPECIALIZATION

Total Credits for Bachelor's Degree in Electrical Engineering: 129

First Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	MATH133	Calculus I	5	MATH116 or placement exam
	HUM120 or-HUM130	Nature and History of Western Art Modern Art History	3	None
	ENG100	English Composition	3	Placement Test
	SWE110	C Programming	4	High School Algebra
Second Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	HUM122 or HUM125	World Music Music in Western Cultures	3	None
	HUM200	History of the Modern World	3	ENG100
	MATH134	Calculus II	5	MATH133
	SCI145	College Physics I	4	MATH133
Third Term: Total 16 credits				
✓	Class	Title	Cr	Prerequisite
	MATH235	Calculus III	5	MATH134
	MATH377	Software Engineering Mathematics	3	MATH133
	SCI245	College Physics II	4	SCI145
	SWE310	Data Structures and Algorithms	4	SWE110, Co-requisite: MATH377
Fourth Term: Total 15 credits				
✓	Class	Title	Cr	Prerequisite
	ELE270	Introduction to Circuits	4	MATH134, SCI245
	ELE350	Digital Circuits and Systems	4	SCI245
	SCI361	Semiconductor Physics	3	MATH134, SCI245
	SWE350	Embedded Software Systems	4	SWE110, MATH133

Fifth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	HUM227 or HUM230	Film History History of Animation	3	ENG100
	ELE312	Signals and Systems	3	ELE270, MATH235
	ELE320	Electronic Devices I	4	ELE270
	SCI	Science Electives	4	
	SSC200	American Government	3	ENG100

Sixth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ELE313	Advanced EE Mathematics I	3	ELE312 or permission of the Instructor
	ELE321	Electronic Devices II	4	ELE320
	ELE355	Introduction to Robotics	3	SWE350, ELE270
	ELE366	Sequential Logic Design	4	ELE350
	ENG210	Cultural Diversity in Lit.	3	ENG100 , HUM120 or 130, HUM122 or 125

Seventh Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ELE358	Mobile Robot and Embedded programming	4	ELE355
	ELE410	Control Systems	4	ELE321, ELE350
	ENG310 or ENG320 or	Classics of Western Drama Classics of World Drama English 300-level elective	3	ENG210, HUM120 or 130, HUM 122 or 125 ENG210, HUM227 or 230
	HUM361	Contemporary Ethical Issues	3	HUM200, SSC200, ENG210
	SSC332	Global Political Economics	3	HUM200, SSC200

Eighth Term: Total 17 credits				
✓	Class	Title	Cr	Prerequisite
	ELE370	Computer Architecture	4	ELE366
	ELE413	Advanced EE Mathematics II	3	ELE313
	ELE450	Intelligent Robotics	4	ELE358, ELE410
	ELE495	Senior Project	3	Senior Standing
	HUM400	General Education Capstone Project	3	ENG310 or 320, SSC332, HUM361