

B.S. in Electrical and Computer Engineering Technology



Engineering
Technology
Accreditation
Commission

The Electrical and Computer Engineering Technology Program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org/>.

Major Program Guide For B.S. in Electrical and Computer Engineering Technology

*Total for Degree 126 Credit Hours with 93 Major Credit Hours

Freshman Year							
Fall				Spring			
Course Prefix or Liberal Studies	Course Number	Course Title	Hours	Course Prefix or Liberal Studies	Course Number	Course Title	Hours
COMM C3	201	Communications	3	ENGL C1	101	Writing and Rhetoric	3
Wellness C4			3	PHYS	130	Physics I	4
ENGR	199	Intro. Eng./Prac./Principles	3	EE	200	Computer Utilization	3
Perspective			3	Perspective			3
MATH C2	146	Precalculus*	4	Perspective			3
		<i>Semester Total</i>	16			<i>Semester Total</i>	16
Sophomore Year							
Fall				Spring			
Course Prefix or Liberal Studies	Course Number	Course Title	Hours	Course Prefix or Liberal Studies	Course Number	Course Title	Hours
ECET	231	Circuit Analysis I*	4	ECET	211	Fabrication	3
PHYS	131	Physics II*	4	ECET	242	Electronic Circuits*	4
MATH	170	Statistics	3	ECET	290	Computer Engineering Fundamentals	3
ENGL C1	202	Writing and Critical Inquiry	3	MATH	153	Calculus I*	4
ENGR	200	Intro. Eng./Prac./Principles II	3				
		<i>Semester Total</i>	17			<i>Semester Total</i>	14
Junior Year							
Fall				Spring			
Course Prefix or Liberal Studies	Course Number	Course Title	Hours	Course Prefix or Liberal Studies	Course Number	Course Title	Hours
ECET	321	Circuit Analysis II*	4	ECET	332	Microcontrollers*	4
EE	221	Logic Systems Design I*	3	ECET	341	Advanced Circuit Analysis*	3
ECET	221	Digital Integrated Circuits Lab*	1	ECET	312	Electronic Communications*	4
MATH	255	Calculus II*	4	LS C5		Science	3
ENGR	350	Eng. Prac./Principles III*	3	Perspective			3
		<i>Semester Total</i>	15			<i>Semester Total</i>	17
Senior Year							
Fall				Spring			
Course Prefix or Liberal Studies	Course Number	Course Title	Hours	Course Prefix or Liberal Studies	Course Number	Course Title	Hours
ENGR	400	Engineering Capstone I*	3	ENGR	450	Engineering Capstone II*	3
ECET	446	Modern Power Systems Analysis*	4	ECET	461	Digital Signal Processing*	3
ECET	431	Microcontroller Interfacing*	4	ECET	464	Instrumentation*	4
ECET	452	Control Systems*	4	Perspective			3
				Upper Level Perspective			3
		<i>Semester Total</i>	15			<i>Semester Total</i>	16

Total Program requires **126 hours**. Liberal Studies **42 hours**. Major Requirements **85 hours**.

> C5 Science must be other than Physics to meet Liberal Studies requirement of two different sciences. CHEM 132 is recommended.

> MATH 146 fulfills C2 liberal studies requirement. PHYS 130 fulfills one course in the C5 requirement.

> (*) indicates pre-requisite or co-requisite required

> One Perspective course must be at the 300-400 level.

> ECET courses are offered once per year, in the semester shown above.

> The ECET major requires a "C" or better in ECET 231, ECET 321, ENGR 199, ENGR 200, ENGR 350, ENGR 400, MATH 153, and MATH 255.