

# B.S. in Electrical and Computer Engineering Technology



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 Suggested Course Sequence

Freshman Year							
Fall				Spring			
Course Prefix or Liberal Studies	Course Number	Course Title	Hour	Course Prefix or Liberal Studies	Course Number	Course Title	Hours
ENGL	101	Composition I (C1)	3	COMM	201	Communications (C3)	3
LS C4		Wellness	3	PHYS	130	Physics I	4
ENGR	199	Intro. Eng/Prac/Prin. I*	3	EE	200	Computer Utilization	3
Perspective			3	Perspective			3
C2 MATH	146	Pre-Calculus	4	Perspective			3
<b>List Pre-requisites and any statement pertaining to course or program:</b> MATH 146 PREQ: (MATH 130), <b>OR</b> (SAT MATH score of 540 or higher), <b>OR</b> (AP CALCULUS score of 2 or higher), <b>OR</b> (ACT MATH of 23 or higher).							
Sophomore Year							
Fall				Spring			
Course Prefix or Liberal Studies	Course Number	Course Title	Hour	Course Prefix or Liberal Studies	Course Number	Course Title	Hours
ECET	231	Circuit Analysis I*	4	ECET	242	Electronic Circuits *	4
PHYS	131	Physics II*	4	ECET	211	Electronic Drafting/Fab	3
MATH	170	Statistics	3	ECET	290	Computer Engr. Fund.	3
C1 ENGL	202	Composition II*	3	MATH	153	Calculus I*	4
ENGR	200	Eng/Prac/Prin. II*	3				
<b>List Pre-requisites and any statement pertaining to course or program:</b> MATH 146 is a PREQ for ECET 231 (may be taken concurrently). ECET 231 with a grade of C or better is a PREQ for ECET 242. PHYS 130 is a PREQ for PHYS 131. ENGL 101 is a PREQ for ENGL 201. MATH 146 is a PREQ for MATH 153. ENGR 199 with a grade of C or better is a PREQ for ENGR 200.							
Junior Year							
Fall				Spring			
Course Prefix of Liberal Studies	Course Number	Course Title	Hour	Course Prefix of 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	Adv. Circuit Analysis*	3
ECET	221	Digital Integrated Circuits Laboratory*	1	ECET	312	Electronic Communications	4
				ENGR	350	Eng/Prac/Prin. III*	3
MATH	255	Calculus II*	3	Perspective			3
LS C5 Science			3				
<b>Notes:</b> Upper Level Perspective (ULP): An <u>approved</u> Upper Level Liberal Studies Perspectives course is required in one of the Liberal Studies Perspectives categories. <b>List Pre-requisites and any statement pertaining to course or program:</b> ECET 231 with a grade of C or better is a PREQ for ECET 321. ECET 321 with a grade of C or better, MATH 153 with a grade of C or better, and ECET 242 are PREQ for ECET 312. ECET 242 is a PREQ and ECET 321 is a COREQ for ECET 346. EE 221 is a COREQ for ECET 221. ECET 321 with a grade of C or better, MATH 153 with a grade of C or better, CS 140 or EE 200, and ECET 331 are PREQ for ECET 332. ECET 321 and MATH 153 both with a grade of C or better are PREQ for ECET 341. MATH 153 is a MATH 255. MATH 255 is a PREQ for ECET 341 (may be taken concurrently). ENGR 199 is a PREQ for EE 221. ENGR 200 with a grade of C or better is a PREQ for ENGR 350.							
To enroll in the senior major courses, students must have completed the following courses with a C or better: ECET 231, ECET 321, and MATH 153.							
Senior Year							
Fall				Spring			
Course Prefix or Liberal Studies	Course Number	Course Title	Hour	Course Prefix of Liberal Studies	Course Number	Course Title	Hours
ENGR	400	Engineering Capstone I*	3	ENGR	450	Engineering Capstone II*	3
ECET	346	Modern Power Systems*	4	ECET	461	Digital Signal Processing*	3
ECET	431	Microprocessor Interfacing*	4	ECET	464	Instrumentation*	4
ECET	452	Control Systems*	4	Perspective			3
				Upper Level Perspective			3
<b>List Pre-requisites and any statement pertaining to course or program:</b> ECET 332 is a PREQ for ECET 431 and ECET 464. ECET 341 is a PREQ for ECET 452 and ECET 461. MATH 255 with a grade of C or better is a PREQ for ECET 461. ENGR 350 with a grade of C or better is a PREQ for ENGR 400. ENGR 400 with a grade of C or better is a PREQ for ENGR 450.							
C5 science must be other than Physics to meet the Liberal Studies requirement of two different sciences. CHEM 139 is recommended.							

- Total for Degree: 126 Credit Hours
- Students may finish earlier if they attend summer school at WCU or another approved institution
- (\*) indicates pre-requisite required

Information in the Course Catalog ([catalog.wcu.edu](http://catalog.wcu.edu)) for the year in which you were admitted prevails, if there is a conflict with the Suggested