



Elec Engr Tech BS

IU Indianapolis School of Engr & Tech (TECH)

[Career Options](#) | [Financial Aid Options](#)

Student's Catalog Year: Fall 2015–Summer 2016

Total Degree Map Credits: 120

Description: An Electrical Engineering Technology Bachelors of Science degree prepares students to solve problems using electrical systems. We apply relevant technologies to address immediate needs both large and small. At IUPUI, we have special expertise in sustainable energy and automation. EET places emphasis on class and laboratory work focused on applications. The focus is on learning theories of how things work in addition to applying those theories in meaningful ways. Our curriculum includes many projects, culminating in a two semester capstone experience. These projects prepare students to effectively manage large assignments when they get into the real world including industries such as industrial controls, power, and systems integration.

C Critical Courses: Courses that students should complete by specific points during their degree or certificate program.

M Milestones: Conditions or activities that students should complete by specific points during their degree or certificate program.

Completing a critical course or milestone by the associated term is considered crucial to on-time graduation.

Year One (32 credits)

Fall Term		Minimum Grade	Credits	⌵	Spring Term		Minimum Grade	Credits	⌵
Discovering Technology			1	⌶	Introduction to Circuit Analysis	C		4	⌶
Required Semester of Completion: Year 1, Fall					Critical Course				
Technical Graphics Communication			3	⌶	Required Semester of Completion: Year 1, Spring				
Required Semester of Completion: Year 4, Spring					Digital Fundamentals II	C		3	⌶
Intro to Engineering Technology	C		3	⌶	Critical Course				
Critical Course					Required Semester of Completion: Year 4, Spring				
Required Semester of Completion: Year 1, Fall					Fundamentals of Speech Communication			3	⌶
Digital Fundamentals	C		3	⌶	Course Details: Also meets Gen Ed Core Communication & Speaking & Listening Competency				
Critical Course					Required Semester of Completion: Year 4, Spring				
Required Semester of Completion: Year 1, Fall					Gen Ed Cultural Understanding Competency			3	⌶
Reading, Writing, and Inquiry			3	⌶					

Course Details: Also meets Gen Ed Core Communication & Writing Competency Required Semester of Completion: Year 4, Spring		
Gen Ed Arts & Humanities Competency	3	^
Course Details: Students must select a course from IUPUI's Arts and Humanities Course list. Required Semester of Completion: Year 4, Spring		
Total		16

Course Details: Students must select a course from IUPUI's Cultural Understanding course list. Required Semester of Completion: Year 4, Spring			
Calculus for Technology I	C	3	^
Course Details: Also meets Gen Ed Analytical Reasoning (Math) Required Semester of Completion: Year 1, Spring			
Total			16

Year Two (30 credits)

Fall Term	Minimum Grade	Credits	^
Electronics Circuit Analysis C		4	^
Critical Course Required Semester of Completion: Year 2, Spring			
Applied Object Oriented Programming C		3	^
Critical Course Required Semester of Completion: Year 2, Spring			
Quantitative Methods for Technology		3	^
Required Semester of Completion: Year 4, Spring			
Calculus for Technology II C		3	^
Critical Course Course Details: Also meets Gen Ed Analytical Reasoning (Other) Required Semester of Completion: Year 4, Spring			
Student should be completed with all first year requirements and have been admitted to the academic department. M			^
Required Semester of Completion: Year 2, Fall			
Intro to Engr Technical Reports C		1	^
Critical Course Course Details: Must be taken with ECET 15700. Required Semester of Completion: Year 2, Fall			
Total		14	

Spring Term	Minimum Grade	Credits	^
AC Electronics Circuit Analys C		4	^
Critical Course Required Semester of Completion: Year 3, Spring			
Computer Communications C		4	^
Critical Course Course Details: Must be taken with TCM 2xx00(Oral Technical Presentation) Required Semester of Completion: Year 4, Spring			
Intro to Technical Presentations C		1	^
Critical Course Course Details: Must be taken with ECET 28400. Required Semester of Completion: Year 4, Spring			
Electrical Power and Controls C		4	^
Critical Course Required Semester of Completion: Year 4, Spring			
MATH/Technical Selective		3	^
Course Details: Students must select from the approved MATH/Technical Selective List. Required Semester of Completion: Year 4, Spring			
Total		16	

Year Three (29 credits)

Fall Term	Minimum Grade	Credits	⌵
Introduction to Microprocessors C		4	⌵
Critical Course Course Details: Must be taken with TCM 3xx00(Technical Documentation) Required Semester of Completion: Year 4, Spring			
Intro to Technical Documentation C		1	⌵
Critical Course Course Details: Must be taken with ECET 20900. Required Semester of Completion: Year 3, Fall			
General Physics		4	⌵
Course Details: Also meets Gen Ed Life & Physical Sciences Competency Required Semester of Completion: Year 4, Spring			
ECET Elective		3	⌵
Course Details: Students must select classes from the approved list of ECET Electives Required Semester of Completion: Year 4, Spring			
Engineering Economics		3	⌵
Required Semester of Completion: Year 4, Spring			
Student should have completed all math requirements (through MATH 22200) prior to this semester. M			⌵
Required Semester of Completion: Year 3, Fall			
		Total	15

Spring Term	Minimum Grade	Credits	⌵
Analog Network Signal Processing		4	⌵
Required Semester of Completion: Year 4, Spring			
ECET Elective		3	⌵
Course Details: Students must select classes from the approved list of ECET Electives Required Semester of Completion: Year 4, Spring			
ECET Elective		3	⌵
Course Details: Students must select classes from the approved list of ECET Electives Required Semester of Completion: Year 4, Spring			
Bus Administration: Intro		3	⌵
Course Details: Also meets Gen Ed Social Sciences Competency Required Semester of Completion: Year 4, Spring			
Ethics & Professionalism in Tech		1	⌵
Required Semester of Completion: Year 4, Spring			
Student should complete 3 300/400 level ECET electives by the end of the Spring of the Third Year so that the student can begin ECET 49000 during the Fall semester of the Fourth Year. M			⌵
Required Semester of Completion: Year 4, Spring			
		Total	14

Year Four (29 credits)

Fall Term	Minimum Grade	Credits	⌵
ECET Elective		3	⌵

Spring Term	Minimum Grade	Credits	⌵
ECET Elective		3	⌵

<p>Course Details: Students must select classes from the approved list of ECET Electives Required Semester of Completion: Year 4, Spring</p>		
Senior Design Project Phase I	1	^
<p>Course Details: Must be taken with TCM 4xx00(Oral & Written Design Reports) Required Semester of Completion: Year 4, Spring</p>		
Intermediate Technical Communication for Design	1	^
<p>Course Details: Must be taken with ECET 49000 Required Semester of Completion: Year 4, Spring</p>		
TECH Elective	3	^
<p>Course Details: Students must select class from the approved TECH Elective List Required Semester of Completion: Year 4, Spring</p>		
Elementary Chemistry I	3	^
<p>Course Details: Also meets Gen Ed Life & Physical Sciences Competency Required Semester of Completion: Year 4, Spring</p>		
Total Quality Control	3	^
<p>Required Semester of Completion: Year 4, Spring</p>		
Notify School of Intent to Graduate M		^
<p>Milestone Details: Please contact your school to determine appropriate steps necessary to apply for graduation. Required Semester of Completion: Year 4, Fall</p>		
Total		14

<p>Course Details: Students must select classes from the approved list of ECET Electives Required Semester of Completion: Year 4, Spring</p>		
Senior Design Project Phase II	2	^
<p>Course Details: Must be taken with TCM 4xx00(Oral & Written Design Reports) Required Semester of Completion: Year 4, Spring</p>		
Advanced Technical Communication for Design	1	^
<p>Course Details: Must be taken with ECET 49100 Required Semester of Completion: Year 4, Spring</p>		
General Education Social Sciences Competency	3	^
<p>Course Details: Students must select a course from IUPUI's Social Science course list. Required Semester of Completion: Year 4, Spring</p>		
TECH Elective	3	^
<p>Course Details: Students must select class from the approved TECH Elective List Required Semester of Completion: Year 4, Spring</p>		
Sustainability Elective	3	^
<p>Course Details: Students must select class from the approved list Required Semester of Completion: Year 4, Spring</p>		
Total		15

Degree Map Link:

<https://sisjee.iu.edu/sisigps-prd/web/igps/dm/public/maps/view?mapId=6736b977-b3c5-11e4-83f6-9463e9cd9b35>

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Achieving minimum grades for individual courses may not result in meeting cumulative GPA requirements for admission to programs or for graduation. Verify requirements with your academic advisor or your Academic Advisement Report (AAR).

Completing 30 credit hours each calendar year is required for full state financial aid eligibility. Be sure to complete your FAFSA before March 10 each year. If you follow your map and find a course unavailable, you may be eligible to take that course for free in a future semester.

[More information about the free course guarantee.](#)