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Elec Engr Tech BS

IU Indianapolis School of Engr & Tech (TECH)

Career Options [Financial Aid Options [

Student's Catalog Year: Fall 2016-Summer 2017

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.
- 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	*		
First Year Seminar for Technology Majors		1	^		
Required Semester of Compl	etion: Year 1,	Fall			
Technical Graphics Communication		3	^		
Required Semester of Compl	etion: Year 4	Spring			
Intro to Engineering Technology c	С	3	^		
Critical Course Course Details: P or C: MATH 11100 AND ENG-W 131					
Required Semester of Compl	etion: Year 1,	Fall			
Digital Fundamentals c	С	3	^		

Spring Term	Minimum Grade	Credits	×			
Introduction to Circuit Analysis	С	4	^			
Critical Course Course Details: P: TECH 10500 15300 Required Semester of Complet						
Digital Fundamentals II c	С	3	^			
Critical Course Course Details: P: ECET 10900 Required Semester of Completion: Year 4, Spring						
Fundamentals of Speech Communication	С	3	^			
Course Details: Also meets Gen Ed Core Communication ¿ Speaking & Listening Competency Required Semester of Completion: Year 1, Spring						

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Critical Course Course Details: P or C: MATH 11100 Required Semester of Completion: Year 1, Fall Reading, Writing, and Inquiry C 3 Course Details: Also meets Gen Ed Core Communication Writing Competency Required Semester of Completion: Year 1, Spring Gen Ed Arts & Humanities Competency Course Details: Students must select a course from IUPUI's Arts and Humanities Course list. Required Semester of Completion: Year 4, Spring

Total

16

Gen Ed Cultural Understanding Competency		3	^
Course Details: Students must select a course IUPUI's Cultural Understanding course lis Required Semester of Completion: Year	t.		
Calculus for Technology I C		3	^
Course Details: Also meets Gen Ed Anal Reasoning (Math) P: MATH 15900 OR P: and MATH 15400 all with grades of C or b Required Semester of Completion: Yea	MATH etter)0
Students should finish ENG-W 131 and COMM-R 110 before the end of the spring semester of their first year.			^
Required Semester of Completion: Yea	r 1, Տլ	pring	
To	otal	16	

Year Two (30 credits)

Fall Term	Minimum Grade	Credits	*		
Electronics Circuit Analysis c	С	4	^		
Critical Course Course Details: P: ECET 10700 AND C: TCM 21800 Required Semester of Complet					
Intro to Engr Technical Reports		1	^		
Critical Course Course Details: C: Must be taken with ECET 15700. AND P: ENG-W 131 Required Semester of Completion: Year 2, Fall					
Applied Object Oriented Programming c	С	3	^		
Critical Course Course Details: P or C: MATH 15300 Required Semester of Completion: Year 2, Spring					
General Physics	С	4	^		
Course Details: Also meets Gen Ed Life & Physical Sciences Competency Required Semester of Completion: Year 4, Spring					
Calculus for Technology II c	С	3	^		

Spring Term	Minimum Grade	Credits	*		
AC Electronics Circuit Analys	С	4	^		
Critical Course Course Details: P or C: ECET 1 15400 Required Semester of Complete					
Computer Communications c		4	^		
Critical Course Course Details: C: Must be take ECET 10700 Required Semester of Complete					
Intro to Technical Presentations c		1	^		
Critical Course Course Details: C: Must be taken with ECET 28400 AND P: COMM-R 110 Required Semester of Completion: Year 4, Spring					
Electrical Machines c	С	3	^		
Critical Course Course Details: ECET 23110 (3 cr.) P: ECET 10900 AND ECET 15700 AND P or C: PHYS 21800 Required Semester of Completion: Year 4, Spring					

Critical Course

Course Details: Also meets Gen Ed Analytical Reasoning (Other) P: MATH 22100 with a grade of C or better

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

Total 15

MATH/Technical Selective 3 Course Details: Students must select from the approved MATH/Technical Selective List. Required Semester of Completion: Year 4, Spring Total 15

Year Three (31 credits)

Fall Term	Minimum Grade	Credits	*	Spring Term Minimum Grade	Credits
Introduction to Microprocessors	С	4	^	Analog Network Signal Processing	4
Critical Course Course Details: C: Must be taken ECET 10900 AND P: ECET 16400				Course Details: P: ECET 20700 AND MATER Required Semester of Completion: Year 4	
27000 Required Semester of Completic	on: Year 4	, Spring		ECET Elective	3
Intro to Technical Documentation c		1	^	Course Details: Students must select class the approved list of ECET Electives Required Semester of Completion: Year 4	
Critical Course Course Details: C: Must be taken Required Semester of Completic				ECET Elective Course Details: Students must select class	3 ses from
Industrial Controls c	С	3	^	the approved list of ECET Electives Required Semester of Completion: Year 4	l, Spring
Critical Course Course Details: ECET 23120 (3 c AND ECET 15700 AND P or C: PH				Ethics & Professionalism in Tech	1
Required Semester of Completic				Required Semester of Completion: Year 4	, Spring
ECET Elective		3	^	Engineering Economics	3
Course Details: Students must set the approved list of ECET Electives		es from		Required Semester of Completion: Year 4	, Spring
Required Semester of Completic		, Spring		General Education Social	3
Quantitative Methods for Technology		3	^	Sciences Competency Course Details: Students must select a cou	
Required Semester of Completic	on: Year 4	, Spring		IUPUI's Social Science course list. Required Semester of Completion: Year 4	

Student should have completed all math requirements (through MATH 22200) prior to this semester. M Required Semester of Completion: Year 3, Fall Total 14

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 17

Credits

Year Four (27 credits)

Fall Term	Minimum Grade	Credits	₩	Spring Term	Minimum Grade
ECET Elective		3	^	ECET Elective	
Course Details: Students mus the approved list of ECET Elect Required Semester of Compl	tives			Course Details: Student the approved list of ECE Required Semester of C	T Electives
Senior Design Project Phase	I	1	^	Senior Design Project F	hase II
Course Details: C: Must be tall Completion of 3 ECET 3/400 le Required Semester of Compl	vel ECET Ele	ctives.		Course Details: C: Musi ECET 49000 Required Semester of C	
Intermediate Technical Communication for Design		1	^	Advanced Technical Communication for Des	ign
Course Details: C: Must be tal Required Semester of Compl				Course Details: Must be Required Semester of C	
Elementary Chemistry I		3	^	TECH Elective	
Course Details: Also meets Go Sciences Competency Required Semester of Compl		•		Course Details: Student approved TECH Elective Required Semester of Course	List
Total Quality Control		3	^	Sustainability Elective	
Required Semester of Compl	etion: Year 4	, Spring		Course Details: Student approved list	ts must select class f
Bus Adminstration: Intro		3	^	Required Semester of 0	Completion: Year 4,
Course Details: Also meets Goompetency	en Ed Social S	Sciences		Senior Seminar for ET	
Required Semester of Compl	etion: Year 4	, Spring		Required Semester of 0	Completion: Year 4,
Notify School of Intent to Graduate M			^		Total

ECET Elective	3	^
Course Details: Students must select classes the approved list of ECET Electives Required Semester of Completion: Year 4, 9		
Senior Design Project Phase II	2	^
Course Details: C: Must be taken with TCM 4 ECET 49000 Required Semester of Completion: Year 4, 9		
Advanced Technical Communication for Design	1	^
Course Details: Must be taken with ECET 49 Required Semester of Completion: Year 4, 9		
TECH Elective	3	^
Course Details: Students must select class fr approved TECH Elective List Required Semester of Completion: Year 4, 9		
Sustainability Elective	3	^
Course Details: Students must select class fr approved list Required Semester of Completion: Year 4, 9		
Senior Seminar for ET	1	^
Required Semester of Completion: Year 4, S	Spring	
Total	13	

Milestone Details: Please contact your school to determine appropriate steps necessary to apply for graduation

Required Semester of Completion: Year 4, Fall

Total 14

Degree Map Link:

https://sisjee.iu.edu/sisigps-prd/web/igps/dm/public/maps/view?mapId=3186d871-02e2-471f-8c54-98e8f0ffa4ab

Сору



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.