









University of Idaho Study Abroad Transformative Learning Map

College of Engineering

Electrical Engineering 5-Year Plan

Key

	= Could study abroad
	= Could do national student exchange
	= Course has international focus
	= Could do internships, cooperative education, or research projects
	= Occasionally offered as service-learning course
	= Could do practicums or clinical experiences
---	= Pending information from department
	= Year-long sequence that should not be broken up
()	= May be approved on a case by case basis
	= Cannot be done abroad or on national student exchange


















Find UI Approved International Universities for Your Major

<http://www.webs.uidaho.edu/ipo/abroad/search/subjects.htm>

Find USAC Study Abroad Programs for Your Major

<http://usac.unr.edu/programs/search.aspx>

This Transformative Learning Map (TLM) is intended to be used as an advising tool only, not a contract between the student and the university, and is subject to verification by the student's academic advisor and/or department chair. The TLM is designed to help students plan for transformative learning experiences such as study abroad, national student exchange, service-learning and internships. While a good faith effort has been made to provide accurate and up-to-date information for the TLM, course and degree requirements may change and so it is imperative you meet with your academic advisor to determine what changes, if any, have taken place and plan your experiences accordingly. The TLM is designed under the University of Idaho General Catalog. Please refer to the Catalog for specific requirements and seek the advice of your advisor for questions.

Key	Course Information	Credit	Note	Key	Course Information	Credit	Note
First Year:							
	FALL				SPRING		
	Engl 102-College Writing and Rhetoric	3		---	Phys 211-Engineering Physics I & Lab	4*	
	Math 143-Pre-Calculus Algebra/Analytic	3+			ECE 101-Foundations of ECE	2*	
	Math 144-Analytic Trigonometry	1+			Math 170-Analytic Geometry/Calculus I	4*	
	CS 112-Intro to Prob Solv & Programming (or CS 120-Computer Science I)	3*			Core 153-168-Core Discovery	3	
	Core 103-118-Core Discovery	4					
	Total	10			Total	13	TOTAL 23
Second Year:							
	FALL				SPRING		
---	Phys 212-Engineering Physics II & Lab	4*			ECE 210-Circuits I	3*	
	Chem 111-Principles of Chemistry	4*			ECE 211-Circuits I Lab	1*	
	Math 175-Analytic Geometry & Calculus II	4*			ECE 292-Sophomore Seminar (S)	0	
	Math 330-Linear Algebra	3		---	Engr 210-Engineering Statics	3*	
					Math 310-Differential Equations	3*	
					HS/INT 	3	
	Total	15			Total	13	TOTAL 28
Third Year:							
	FALL				SPRING		

→	ECE 212-Circuits II	3*		→	Stat 301-Probability & Statistics	3	
→	ECE 213-Circuits II Lab	1*		→	ECE 310-Electronics	3	
→	Math 275-Analytic Geometry & Calculus III	3*		→	ECE 311-Electronics Lab	1	
→	ECE 240-Digital Logic	3*		→	Engl Technical Writing	3	
→	ECE 241-Digital Logic Lab	1*		→	HS/INT	3	
---	Engr 220-Engineering Dynamics	3					
	Total	14			Total	13	TOTAL 27

Four Year:

	FALL				SPRING		
→	ECE 320-Energy Systems	3		→	ECE 330-Electromagnetic Theory	3	
→	ECE 321-Energy Systems Lab	1		→	ECE 331-EM Theory Lab	1	
→	ECE 350-Signals & Systems	3		→	TE	3	
→	ECE 351-Signals and Systems Lab	1		→	ES	3	
→	ECE 340-Microcontrollers	3		→	HS/INT	3	
→	ECE 341-Microcontrollers Lab	1					
	Total	12			Total	13	TOTAL 25

Fifth Year:

	FALL				SPRING		
→	ECE 480-EE Senior Design	3		→	ECE 481-EE Senior Design II	3	
→	ECE 491-EE Senior Seminar (F)	0		→	TE	3	
---	Engr 360-Engineering Economy	2		→	TE	3	
→	TE	3		→	TE	3	
→	TE	3		→	FE	1	
→	FE	1					
	Total	12			Total	13	TOTAL 25

TOTAL CREDITS

128*

*Total for degree = 128 credits (minimum). Course offerings may change from year to year. Always check the current course catalog.

The University of Idaho reserves the right to change, amend or discontinue any articulation agreement or curriculum plan at any time.

***-A "C" or better is required in the courses marked "*" and a passing grade in ECE 292 are required before upper division electrical engineering courses may be taken**

+--Math 143 & 144 may be required prior to taking 170 depending on standardized test or math placement test scores. However, Math 143 & 144 are not part of the electrical engineering curriculum. The entire math sequence may be moved up one semester if Math 143 & 144 are not taken.

HS-Humanities and Social Sciences. Satisfy two conditions: (1) AmSt 301 or Phil 103 and (2) Econ 201 or 202 or 272.

INT- One approved international course (The list of approved courses is found in the UI catalog)

TE- Technical Electives. Eighteen credits required and satisfy three conditions: (1) Nine credits (minimum) from the following ECE courses: 410, 420 (S), 430 (every third semester), 440 (S), 450 (F) & 460 (F). (2) Three credits (minimum) from upper-division ECE courses. (3) The remaining six credits from upper-division ECE, and approved Engineering, Math, Physics, and Computer Science courses.

ES-Upper division Engineering Science Elective, a minimum of three credits required. Engineering Science Elective credits may be obtained from the following courses: Engr 320, Engr 335, Engr 350, and CE 402.

FE-Free elective

Students majoring in Electrical Engineering who accumulate grades of D's and F's in mathematics, science, or engineering courses that are used to satisfy graduation requirements, including repeats and transfer courses will be required to undergo special advising as per department bylaws.

Cooperative educational experiences are available through the university Cooperative Education Office and the department co-op coordinator to give the students industrial experience in their chosen field. Academic credit for co-op participation may be earned but may not be used as part of the program of study.

Courses offered only during a semester are identified above with a letter in parentheses by the course number: "F" refers to fall only courses and "S" to spring only courses.