

GERMAN IEP – ELECTRICAL ENGINEERING

For students entering Fall 2010 (Class of 2015)

The academic plan below is a sample to demonstrate one way the dual degree program may be completed in 10 semesters. It is not meant to be a replacement for academic advising. Be sure to touch base with both your language and engineering advisor regularly.

		FALL		SPRING		
Year One	✓	Course	Cr	✓	Course	Cr
		CHM 101 General Chemistry I Lecture	3		EGR 106 Foundations of Engineering II	2
		CHM 102 General Chemistry I Lab	1		General Education Requirement (ECw)	3
		EGR 105 Foundations of Engineering I	1		GER 102 German for Engineers II	3
		GER 101 German for Engineers I	3		MTH 142 Intermediate Calculus w/ Analytic Geometry	4
		MTH 141 Intro Calculus w/ Analytic Geometry	4		PHY 204 Elementary Physics II	3
		PHY 203 Elementary Physics I Lecture	3		PHY 274 Elementary Physics II Lab	1
		PHY 273 Elementary Physics I Lab	1		ELE 101 Intro to Electrical Engineering	1
	Semester Credits	16		Semester Credits	17	
		FALL		SPRING		
Year Two	✓	Course	Cr	✓	Course	Cr
		CSC 200 Computer Problem Solving	4		ELE 205 Microprocessors	2
		ELE 201 Digital Circuit Design	3		ELE 206 Microprocessor Lab	1
		ELE 202 Digital Circuit Design Lab	1		ELE 212 Linear Circuit Theory	3
		GER 103 Intermediate German I	3		ELE 215 Linear Circuit Lab	2
		MTH 362 Advanced Engineering Mathematics I	3		GER 104 Intermediate German II	3
		PHY 205 Elementary Physics III Lecture	3		MTH 243 Calculus for Functions of Several Variables	3
		PHY 275 Elementary Physics III Lab	1		PHY 306 Elementary Modern Physics	3
	Semester Credits	18		Semester Credits	17	
		FALL		SPRING		
Year Three	✓	Course	Cr	✓	Course	Cr
		ECN 201 Microeconomics (S)	3		ELE 301 Electronic Design Automation	3
		ELE 313 Linear Systems	3		ELE 302 Electronic Design Automation Lab	1
		ELE 331 Intro to Solid State Devices	4		ELE 314 Linear Systems and Signals	3
		ELE 338 Electronics I	3		ELE 322 Electromagnetic Fields I	4
		ELE 339 Electronics I Lab	1		ELE 343 Electronics II	3
		GER 205 Conversation & Composition I	3		ELE 344 Electronics II Lab	1
					GER 206 Conversation & Composition II	3
	Semester Credits	17		Semester Credits	18	
		Suggested Semester Abroad		International Internship Semester		
Year Four	✓	Course	Cr	✓	Course	Cr
		EGR/GER 411	3		Internship in German-Speaking Country	
		Electrical Engineering Design Elective*	3 to 4		GER 315-316	3 to 6
		General Education Requirement (L)	3			
		GER 3xx	3			
	MTH 451 or ISE 411 Probability and Statistics	3				
	Semester Credits	15 to 16		Semester Credits	3 to 6	
		FALL		SPRING		
Year Five	✓	Course	Cr	✓	Course	Cr
		ELE 400 Intro to Professional Practice	1		ELE 481 Capstone Design II	3
		ELE 480 Capstone Design I	3		General Education Requirement	3
		Electrical Engineering Design Elective*	4		General Education Requirement	3
		Professional Elective**	3 to 4		General Education Requirement	3
		General Education Requirement	3		GER 4xx German Literature (A)	3
		GER 4xx	3			
	Semester Credits	17 to 18		Semester Credits	15	

* Electrical Engineering Design Electives are chosen as follows: two (2) courses from ELE 401/402, 423, 427/428, 432, 435/436, 444/445, 447/448, 457, or 458/459.

** Professional Elective is chosen as follows: one (1) course from: BME 462, 464/465, 468; BME/ELE 461; ELE 405/406, 408/409, 437,

438, 470, or one (1) additional Electrical Engineering Design Elective.

GEN ED TALLY (See special notes about General Education Requirements on the reverse and consult with the university catalog and your major advisors.)

EC: _____

S: _____

ECw: _____

S (use ECN 201): _____

L (reserve one for TUBS): _____

A (400-level German Lit.): _____

L: _____

A (fine art): _____

BASIC LIBERAL STUDIES (GEN ED) REQUIREMENTS (See course catalog for more detail.)

English Communications (EC): 6 credits, one of which must be a writing course (ECw.)

Social Science (S): 6 credits, one of which is fulfilled by ECN 201, which is already required for ELE majors. Consider opting for a second course with a global focus, or a focus on Germany or Europe.

Letters (L): 6 credits. Consider taking a German History class (HIS 327 at URI or in Braunschweig) to fulfill one of your two general education Letters requirements. Consider taking “Landeskunde” (LET 151) in Braunschweig to fulfill the other requirement.

Fine Arts and Literature (A):

1. **3 credits of literature:** As an IEP student the 400-level German literature course fulfills the literature portion of the Fine Arts & Literature requirement. (NOTE: This is a special exemption. If you later drop the program but keep your language major you might need to take an additional literature course.)
2. **3 credits of fine arts:** You must choose from music, theater, arts selections as indicated in catalog, or seek prior-approval for a comparable course abroad.

Note: There are additional General Education Requirements in *Mathematical and Quantitative Reasoning*, *Natural Sciences*, and *Foreign Language/Cross-Cultural Competence*, which are fulfilled automatically through your progress toward your two degrees (B.S. in Engineering and B.A. in a Language).

REQUIREMENTS FOR ELECTRICAL ENGINEERING MAJOR (See course catalog and department website for more detail.)

CHM 101, 102; CSC 200; ECN 201; EGR 105, 106; ELE 201, 202, 205, 206, 212, 215, 301, 302, 313, 314, 322, 331, 338, 339, 343, 344, 400, 480, 481; MTH 141, 142, 243, 362, 451 (or ISE 411); PHY 203, 204, 205, 273, 274, 275, 306; one professional elective and two electrical engineering design electives from approved list.

REQUIREMENTS FOR IEP GERMAN MAJOR (See course catalog for more detail.)

At least 30 credits in German, not including GER 101, 102, or 392. You must complete six credits in literature, at least three of which must be taken at the 400-level; and EGR/GER 411.

SPECIAL NOTES FOR STUDENTS IN THE INTERNATIONAL ENGINEERING PROGRAM

- As a dual degree IEP student, **you are a student of both the College and Arts & Sciences and the College of Engineering.** Be sure to file for graduation (and any other paperwork such as a leave of absence, etc.) with the dean’s office of each college.
- You have two academic advisors – one for your language major and one for your engineering major. The German advisor for all IEP students is Walter von Reinhart (waltaire@uri.edu.) You can check with your engineering department to find out who has been assigned as your engineering advisor.
- **Your general education requirements are determined by the College of Arts & Sciences Basic Liberal Studies Program for the Bachelor of Arts (not B.S.).** Consult the course catalog for details and verify any general education questions with your language advisor.
- As an IEP student, **you are exempt from the one-course-per-discipline rule** for the Letters, Natural Sciences, and Social Sciences Basic Liberal Studies Requirements of the College of Arts & Sciences. This is important to know in the event that you drop the program but still want to pursue your German major as a non-IEP student.
- You are required to complete a six-month professional internship abroad to be considered an IEP student.
- **It is highly recommended that you precede your semester internship with a semester of study abroad through an IEP**

exchange. General education requirements, language major courses, free electives and engineering professional electives tend to be the easiest courses to find equivalents for overseas, so you might want to “hold” them for a semester abroad. Consult with your advisors and plan your semesters accordingly.

- *It is YOUR responsibility to stay in contact with your engineering major advisor AND your language major advisor to make sure that you are fulfilling all requirements for both majors and your general education requirements!*