

GERMAN IEP – ELECTRICAL ENGINEERING

For students entering Fall 2008 (IEP Class 2013)

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		ECN 201 Principles of Microeconomics (S)	3
		CHM 102 General Chemistry I Lab	1		EGR 106 Foundations of Engineering II	2
		EGR 105 Foundations of Engineering I	1		General Education Requirement	3
		GER 101 German for Engineers I	3		GER 102 German for Engineers II	3
		MTH 141 Intro Calculus w/ Analytic Geometry	4		MTH 142 Intermed Calculus w/ Analytic Geo	4
		PHY 203 Elementary Physics I Lecture	3		PHY 204 Elementary Physics II	3
		PHY 273 Elementary Physics I Lab	1		PHY 274 Elementary Physics II Lab	1
	Semester Credits	16		Semester Credits	19	
		FALL			SPRING	
Year Two	✓	Course	Cr	✓	Course	Cr
		CSC 200 Computer Problem Solving	4		ELE 212 Linear Circuit Theory	3
		ELE 201 Digital Circuit Design	3		ELE 215 Linear Circuits Lab	2
		ELE 202 Digital Circuit Design Lab	1		GER 104 Intermediate German II	3
		GER 103 Intermediate German I	3		ELE 205 Microprocessor Lab	3
		MTH 362 Advanced Engineering Mathematics I	3		MTH 243 Multivariable Calculus	3
		PHY 205 Elementary Physics III Lecture	3		PHY 306 Elementary Modern Physics	3
		PHY 275 Elementary Physics III Lab	1			
	Semester Credits	18		Semester Credits	17	
		FALL			SPRING	
Year Three	✓	Course	Cr	✓	Course	Cr
		ELE 313 Linear Systems	3		ELE 306 Electronic Design Automation	3
		ELE 331 Intro to Solid State Devices	4		ELE 307 Electronic Design Automation Lab	1
		ELE 341 Electronics I	3		ELE 314 Linear Systems and Signals	3
		ELE 342 Electronics I Lab	1		ELE 322 Electromagnetic Fields I	4
		General Education Requirement	3		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 (Technical Elective)**	3			
		Electrical Engineering Design Elective*	3 to 4		Internship in German-Speaking Country	
		General Education Requirement (L)	3		GER 315-316	3 to 6
		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
		Electrical Engineering Design 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 any **three** of the following courses (**plus labs**): BME 464/465, ELE 401/402, 405/406, 408/409, 423, 427/428, 432, 435/436, 437, 438, 444/445, 447/448, 457, 458/459, or 489. However, **one** of the courses must come from the following: ELE 408/409, 427, 435/436, 444/445, 447/448, 458/459, or 489.

** A Technical Elective is **one** of the following courses: ELE 305, 325; ISE 404, 412; MTH 215, 244, or any 300-500 level MTH course **EXCEPT MTH 381**, or an additional Electrical Engineering Design Elective, or EGR/GER 411 if available.

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

EC: _____
 ECw: _____
 L (reserve one for TUBS): _____
 L: _____

S: _____
 S (use ECN 201): _____
 A (400-level German Lit.): _____
 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, 306, 307, 313, 314, 322, 331, 341, 342, 343, 344, 400, 480, 481; MTH 141, 142, 243, 362, 451 (or ISE 411); PHY 203, 204, 205, 273, 274, 275, 306; one technical elective (may be fulfilled by GER/EGR 411 with prior approval); three electrical engineering design electives (plus labs) 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!**