

GERMAN IEP - BIOMEDICAL

For students entering Fall 2006 (IEP Class 2011)

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 SEMESTER		SPRING SEMESTER	
Year One	CHM 101 Gen. Chem. 3 CHM 102 Lab. For Chem. 1 MTH 141 Calculus I 4 PHY 203/273 Elem. Phys I & Lab. 4 GER 101 German for Engineers 3 EGR 105 Foundations of Engr. I 1 <p style="text-align: right;">16</p>	BIO 121 Human Anatomy 4 MTH 142 Calculus II 4 GER 102 German for Engineers 3 PHY 204/274 Elem. Phys. II & Lab. 4 EGR 106 Foundations of Engr. II 2 <p style="text-align: right;">17</p>	
Year Two	CSC 200 Comp. Methods for Engr. 4 MTH 362 Adv. Engr. Math I 3 ELE 282 Biomed. Seminar I 1 ELE 201/202 Dig. Cir. Des. & Lab 4 CHM 124 Intro. to Organic Chemistry 3 GER 103 Intermediate German I 3 <p style="text-align: right;">18</p>	ELE 212 Linear Circuit Theory 3 ELE 215 Linear Circuit Lab. 2 ELE 205 Microprocessor Lab. 3 ELE 207 Intro. to Biomed. Eng. 3 GER 104 Intermediate German II 3 MTH 243 Calculus III 3 <p style="text-align: right;">17</p>	
Year Three	ECN 201 Microeconomics (S) 3 ELE 313 Linear Systems 3 ELE 342 Electronics I 4 ELE 382 Biomed. Seminar II 1 GER 205 Conv. & Comp. I 3 Gen Ed. Requirement 3 <p style="text-align: right;">17</p>	ELE 482 Biomed. Seminar II 1 ELE 314 Linear Systems & Signals 3 ELE 343 Electronics II 4 ELE 322 Electromag. Fields I 3 GER 206 Conv. & Comp. II 3 Gen Ed. Requirement 3 <p style="text-align: right;">17</p>	
Suggested Semester Abroad		International Internship Semester	
Year Four	GER 3xx 4-7 Mathematics Elective 3 Gen Ed. Requirement (L) 3 EGR/GER 411 (Egr. Elective) 3 Gen Ed. Requirement 3 <p style="text-align: right;">16-19</p>	Internship In German-Speaking Country 3-6 GER 315-316	
Year Five	ELE 488 Biomedical Engr. I 4 ELE Design 3-4 BIO 442 Mammalian Physiology 3 BIO 444 Experimental Physiology 1 Gen Ed. Requirement 3 GER 4xx 3 <p style="text-align: right;">17-18</p>	ELE 489 Biomedical Engr. II 4 ELE Design 3-4 Gen Ed. Requirement 3 Engineering Elective 3 GER 4xx German Lit. (A) 3 ELE 400 Intro. To Prof. Practice 1 <p style="text-align: right;">17-18</p>	

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 BME 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 will be fulfilled automatically through your progress toward degrees in both engineering and a language.

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

EGR 105, 106; CHM 101, 102; MTH 141, 142, 243, 362; PHY 203, 204, 273, 274; ECN 201; CSC 200; CHM 124; BIO 121, 442, 444; ELE 201, 202, 205, 207, 212, 215, 282, 313, 314, 322, 342, 343, 382, 400, 488, 489; one mathematics elective (215 or any 300- to 500-level math course, except 381; MTH 451 is recommended); two engineering electives (one may be fulfilled by GER/EGR 411 with prior approval); two electrical engineering design electives (from ELE 401,405, 408, 427, 432, 436, 437, 444, 447, 457 or 458.)

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!**