German IEP – INDUSTRIAL ENGINEERING

For students entering Fall 2006 (Class of 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	ECN 201 Microeconomics (S)	3
	CHM 102 Lab. For Chem.	1	MTH 142 Calculus II	4
	MTH 141 Calculus I	4	GER 102 German for Engineers	3
	PHY 203/273 Elem. Phys I & Lab.	4	PHY 204/274 Elem. Phys. II & Lab.	4
	GER 101 German for Engineers	3	EGR 106 Foundations of Engr. II	2
	EGR 105 Foundations of Engr. I	1		
		16		**16**
Year Two	IME 240/241 Manuf. Processes & Lab	4	CVE 220 Mechanics of Materials	3
	IME 325 Computer Solutions in IME	3	ELE 220 Passive and Active Circuits	3
	MCE 262 Statics	3	IME 220 Intro to Industrial Engineering	3
	MTH 243 Calculus Several Variables	3	MCE 263 Dynamics	3
	GER 103 Intermediate German I	3	MTH 362 Advanced Engineering Math.	3
	Basic Science Elective (see catalog)	3	GER 104 Intermediate German II	3
		19		**18**
Year Three	CHE 333 Engineering Materials	3	BUS 201 OR BUS 303	3
	IME 404 Engineering Economy	3	IME 412 Statistical Methods for Engin.	3
	IME 432 Operations Res: Deterministic	3	IME 433 Operations Res: Stochastic	3
	IME 411 Probability & Statistics	3	IME 392 Junior Project	3
	MCE 341 Thermo. OR PHY 205/275	3/4	ECN 202 Macroeconomics (S)	3
	GER 205 Conv. & Comp. I	3	GER 206 Conv. & Comp. II	3
		18-19		**18**
	Suggested Semester Abroad		**International Internship Semester**	
Year Four	Professional Elective	3	Internship In	
	Gen Ed. Requirement (L)	3	German-Speaking Country	3-6
	EGR/GER 411 (Professional Elective)	3	GER 315-316	
	GER 3xx	4-7		
		13-16		
Year Five	IME 449 Product Design for Manuf.	3	IME 452 Industrial Eng. Design II	3
	IME 451 Industrial Eng. Design I	3	Professional Elective	3
	EGR 316 Engineering Ethics (L)	3	Gen Ed. Requirement	3
	Gen Ed. Requirement	3	Gen Ed. Requirement	3
	GER 4xx	3	GER 4xx German Lit. (A)	3
		15		**15**

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 (use EGR 316): _____
☐ S (use ECN 201): _____
☐ S (use ECN 202): _____
☐ 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. ECN 201 and 202, which are required for IME majors, fulfill this requirement.

Letters (L): 6 credits. EGR 316, which is required for IME majors, fulfills one such course. Consider taking a German History class (HIS 327 at URI or in Braunschweig) to fulfill the other.

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 are fulfilled automatically through your progress toward an engineering degree with a language minor.

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

EGR 105, 106, 316; CHM 101, 102, and 333; MTH 141, 142, 243, 362; PHY 203, 204, 273, 274; ECN 201, 202; ELE 220; CVE 220; MCE 262, 263; MCE 341 OR PHY 205/275; IME 220, 240, 241, 325, 392, 404, 411, 412, 432, 433, 449, 451, 452; BUS 201 or 303; a basic science elective (any course for which CHM 101 is a prerequisite, incl. PHY 205, 223 and 275; any physics course at the 300-level or above or a course in astronomy, biochemistry, biology, botany, geology, microbiology or zoology. Any other courses must be approved by an advisor.); and three professional electives (one may be fulfilled by GER/EGR 411 with prior approval)

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 Dr. Walter von Reinhart. 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**. 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.

- **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!***