

# German IEP – CHEMICAL ENGINEERING

**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		
<b>Year One</b>	CHM 101 Gen. Chem. I	3	CHM 112 Gen. Chem II	3
	CHM 102 Lab. For Chem.	1	CHM 114 Gen. Chem II Lab	1
	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	MTH 142 Intermediate Calculus	4
	<b>16</b>		<b>17</b>	
<b>Year Two</b>	CHE 212 Chem. Proc. Calc	3	CHE 272 Intro. ChE Calcs.	3
	CHM 227 Organic Chem.	3	CHE 313 ChE Thermo I	3
	MTH 243 Multivariable Calc.	3	CHE 332 Physical Metallurgy	3
	ECN 201 Micro. Econ (S)	3	CHM 228 <b>OR</b> BCH 311 <b>OR</b> Approved	3
	GER 103 Intermediate German I	3	Advanced Chemistry Course	
	Gen Ed. Requirement	3	MTH 244 Diff Eq <b>OR</b>	3
		<b>18</b>	MTH 362 Adv. Math.	
		GER 104 Intermediate German II	3	
		<b>18</b>		
<b>Year Three</b>	CHE 314 ChE Thermo II	3	CHE 348 Trans. Oper. II	3
	CHE 347 Transfer Operations I	3	CHE 464 Indus. React. Kinetics	3
	CHM 431 Phys. Chem. I	3	CHM 432 Phys. Chem. II <b>OR</b> Approved	3
	CHM 335 Phys. Chem. I Lab	2	Advanced Chemistry Course	
	GER 205 Conv. & Comp. I	3	GER 206 Conv. & Comp. II	3
	Gen Ed. Requirement	3	Gen Ed. Requirement	3
	<b>17</b>		<b>15</b>	
<b>Suggested Semester Abroad</b>		<b>International Internship Semester</b>		
<b>Year Four</b>	Approved Prof. Elective	3	Internship In German-Speaking Country GER 315-316	3-6
	Approved Math Elective	3		
	Gen Ed. Requirement (One must be L)	6		
	EGR/GER 411 (Prof. Elective)	3		
	GER 3xx	4		
<b>19</b>				
<b>Year Five</b>	CHE 328 Industrial Plants	1	CHE 346 Chem. Eng. Lab	2
	CHE 345 Chem. Eng. Lab	2	CHE 352 Plant Design & Econ. II	3
	CHE 349 Trans. Oper. III	2	Approved Professional Elective	3
	CHE 351 Plant Design & Econ. I	3	Approved Professional Elective	3
	CHE 425 Process Dynamics & Control	3	GER 4xx German Lit. (A)	3
	GER 4xx	3	Gen Ed. Requirement	3
	Gen Ed. Requirement	3		<b>17</b>
<b>17</b>				

**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 CHE majors. Consider opting for a second course with a global focus, or a focus on Germany or Europe.

**Letters (L):** 6 credits. “Landeskunde” (LET 151) in Braunschweig will fulfill one of your two general education Letters requirements. 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 be fulfilled automatically through your progress toward an engineering degree with a language minor.

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

EGR 105, 106; CHE 212, 272, 313, 332, 314, 347, 348, 464, 328, 345, 349, 351, 425, 346, 352; CHM 101, 102, 112, 114, 227, 228 or approved advanced chemistry course, 335, 431, 432 or approved advanced chemistry course; MTH 141, 142, 243, 244 or 362, and an approved math elective; PHY 203, 204, 273, 274; ECN 201; 4 approved 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 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, engineering professional electives and free electives (if you have any) 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!**