

# GERMAN IEP – MECHANICAL 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		
<b>Year One</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		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			
	<b>Semester Credits</b>	<b>16</b>		<b>Semester Credits</b>	<b>16</b>	
		FALL		SPRING		
<b>Year Two</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		GER 103 Intermediate German I	3		CVE 220 Mechanics of Materials	3
		MCE 201 Graphics for MCE	3		ELE 220 Passive and Active Circuits	3
		MCE 262 Statics	3		GER 104 Intermediate German II	3
		MTH 243 Calculus for Functions of Several Variables	3		MCE 263 Dynamics	3
		PHY 205 Elementary Physics III Lecture	3		MTH 244 Differential Equations	3
		PHY 275 Elementary Physics III Lab	1		ISE 220 Industrial and Systems Egr Seminar	1
		<b>Semester Credits</b>	<b>16</b>		<b>Semester Credits</b>	<b>16</b>
		FALL		SPRING		
<b>Year Three</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		GER 205 Conversation & Composition I	3		ECN 201 Principles of Microeconomics (S)	3
		ISE 240 Manufacturing Processes	3		GER 206 Conversation & Composition II	3
		MCE 301 Application of Mechanics in Design	3		MCE 302 Design of Machinery	3
		MCE 341 Fundamentals of Thermodynamics	3		MCE 313 Intro to MCE Experimentation	3
		MCE 354 Fluid Mechanics	3		MCE 348 Heat and Mass Transfer	3
		MCE 372 Engineering Analysis I	3		MCE 366 System Dynamics	3
		<b>Semester Credits</b>	<b>18</b>		<b>Semester Credits</b>	<b>18</b>
		Suggested Semester Abroad		International Internship Semester		
<b>Year Four</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		EGR/GER 411 (Professional Elective)	3			
		General Education Requirement	3		Internship in German-Speaking Country	
		General Education Requirement	3		GER 315-316	3 to 6
		GER 3xx	3			
		Professional Elective (see notes)	3			
	<b>Semester Credits</b>	<b>15</b>		<b>Semester Credits</b>	<b>3 to 6</b>	
		FALL		SPRING		
<b>Year Five</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		CHE 333 Engineering Materials	3		General Education Requirement	3
		GER 4xx	3		General Education Requirement	3
		ISE 241 Manufacturing Processes Lab	1		General Education Requirement	3
		MCE 401 Mechanical System Design	3		GER 4xx German Literature (A)	3
		MCE 414 MCE Experimentation	3		MCE 402 Thermal Systems Design	3
		Professional Elective (within MCE)	3		Professional Elective (within MCE)	3
	<b>Semester Credits</b>	<b>16</b>		<b>Semester Credits</b>	<b>18</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 (COM 100 or WRT 333 recommended): \_\_\_\_\_  
 ECw (WRT 104 or 106 recommended): \_\_\_\_\_

S: \_\_\_\_\_  
 S (use ECN 201): \_\_\_\_\_

L: \_\_\_\_\_  
 L (reserve for TUBS): \_\_\_\_\_

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.) The Dept. of Mechanical Engineering suggests that you take either WRT 104 OR WRT 106 to fulfill the ECw requirement, and either COM 100 or WRT 333 as your second EC course.

**Social Science (S):** 6 credits, one of which is fulfilled by ECN 201, which is already required for MCE 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, and taking “Landeskunde” (LET 151) 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 are fulfilled automatically through your progress toward your two degrees (B.S. in Engineering and B.A. in a Language).

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

CHM 101, 102, 333; CVE 220; ECN 201; EGR 105, 106; ELE 220; ISE 240, 241; MCE 201, 262, 263, 301, 302, 313, 341, 354, 366, 372, 401, 402, 414, 448; MTH 141, 142, 243, 244; PHY 203, 204, 205, 273, 274, 275; three MCE professional electives (2 of which must be taken at URI) and one additional professional elective (300-, 400- or 500-level course offered by the COE, or the Dept. of: Chemistry, Physics, Computer Science & Statistics; or a 400- or 500-level mathematics course.) Professional elective courses taken outside URI, such as while studying abroad, are subject to URI rules on transfer credit and require *prior written 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, 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!**