

# GERMAN IEP – MECHANICAL ENGINEERING

## Freshmen Entering Fall 2006 (IEP 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	
<b>Year One</b>	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 <b style="text-align: right;">16</b>	Gen. Ed. Requirement (ECw) 3 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 <b style="text-align: right;">16</b>	
<b>Year Two</b>	MCE 201 Graphics for Mec. Eng. 3 MCE 262 Statics 3 PHY205/275 Elem. PHY III & Lab. 4 MTH 243 Calculus of Sev. Var. 3 GER 103 Intermediate German I 3 <b style="text-align: right;">16</b>	CVE 220 Mechanics of Materials 3 ELE 220 Electric Circuits 3 MCE 263 Dynamics 3 MTH 244 Differentials Equations 3 GER 104 Intermediate German II 3 <b style="text-align: right;">15</b>	
<b>Year Three</b>	CHE 333 Engineering Materials 3 GER 205 Conv. & Comp. I 3 IME 240 Manufacturing Process. 3 MCE 301 Appl. Mechanical Des. 3 MCE 341 Thermodynamics 3 MCE 372 Engineering Analysis 3 <b style="text-align: right;">18</b>	ECN 201 Micro. Econ. (S) 3 GER 206 Conv. & Comp II 3 MCE 302 Design of Machines 3 MCE 313 Int. Mech. Engr. Exper. 3 MCE 354 Fluid Mechanics 3 MCE 366 System Dynamics 3 <b style="text-align: right;">18</b>	
<b>Suggested Semester Abroad</b>		<b>International Internship Semester</b>	
<b>Year Four</b>	Professional Elective (see notes) 3 Gen Ed. Requirement 3 Gen Ed. Requirement 3 GER 3xx 3 EGR/GER 411 (Professional Elective) 3 <b style="text-align: right;">15</b>	Internship In German-Speaking Country 3-6 GER 315-316	
<b>Year Five</b>	MCE 401 Mechanical Sys. Design 3 MCE 414 Mech. Engr. Exper. 3 MCE 448 Heat Transfer 3 Professional Elective (within MCE) 3 Gen Ed. Requirement (EC) 3 GER 4xx 3 <b style="text-align: right;">18</b>	EGR 316 Engineering Ethics (L) 3 MCE 402 Thermal Systems Design 3 Professional Elective (within MCE) 3 Gen Ed. Requirement 3 GER 4xx German Lit. (A) 3 <b style="text-align: right;">15</b>	

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

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|---|---|
| <input type="checkbox"/> EC (COM 100 or WRT 333 recommended): _____ | <input type="checkbox"/> S: _____                         |
| <input type="checkbox"/> ECw (WRT 104 or 106 recommended): _____    | <input type="checkbox"/> S (use ECN 201): _____           |
| <input type="checkbox"/> L (use EGR 316): _____                     | <input type="checkbox"/> A (400-level German Lit.): _____ |
| <input type="checkbox"/> L (reserve for TUBS): _____                | <input type="checkbox"/> 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 will be fulfilled automatically through your progress toward degrees in both engineering and a language.

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

EGR 105, 106, 316; CHM 101, 102, 333; CVE 220; ELE 220; IME 240; MTH 141, 142, 243, 244; PHY 203, 204, 205, 273, 274, 275; ECN 201; MCE 201, 262, 263, 301, 302, 313, 341, 354, 366, 372, 401, 402, 414, 448; 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!**