

# GERMAN IEP – OCEAN 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 <p style="text-align: right;"><b>16</b></p>	OCE 101 Intro. Ocean Engineering 1 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 ECN 201 Microeconomics (S) 3 <p style="text-align: right;"><b>17</b></p>	
<b>Year Two</b>	OCE 215 Ocean Eng. Design 1 1 OCE 205 Ocean Eng. Design Tools 3 PHY205/275 Elem. Phys III & Lab. 4 MTH 243 Calculus of Sev. Var. 3 MCE 262 Statics 3 GER 103 Intermediate German I 3 <p style="text-align: right;"><b>17</b></p>	OCE 216 Ocean Eng. Design II 1 OCE 206 Ocean Instrumentation 3 CVE 220 Mechanics of Materials 3 MTH 244 Differentials Equations 3 MCE 263 Dynamics 3 GER 104 Intermediate German II 3 <p style="text-align: right;"><b>16</b></p>	
<b>Year Three</b>	OCE 301 Funds. of Ocean Mechanics 4 OCE 310 Basic Ocean Measurements 3 MCE 354 Fluid Mechanics 3 CHE 333 Engineering Materials 3 GER 205 Conv. & Comp. I 3 <p style="text-align: right;"><b>16</b></p>	OCE 307 Intro Eng. Wave Mech & Litt. 3 OCE 311 Coastal Meas. & Apps 4 OCE 471 Underwater Acoustics 3 GER 206 Conv. & Comp II 3 EGR 316 Engineering Ethics (L) 3 <p style="text-align: right;"><b>16</b></p>	
<b>Suggested Semester Abroad</b>		<b>International Internship Semester</b>	
<b>Year Four</b>	Professional Elective (see notes) 3 EGR/GER 411 (Professional Elective) 3 GER 3xx 3-7 Gen Ed. Requirement (L) 3 Gen Ed. Requirement 3 <p style="text-align: right;"><b>15-19</b></p>	Internship In German-Speaking Country 3-6 GER 315-316 <p style="text-align: right;"><b>3-6</b></p>	
<b>Year Five</b>	OCE 416 Ocean Eng. Prof. Practice 2 OCE 495 Ocean Sys Design Project I 3 OCE 421 Marine Structure Design 3 Professional Elective 3 Gen Ed. Requirement 3 GER 4xx 3 <p style="text-align: right;"><b>17</b></p>	OCE 496 Ocean Sys Design Project II 3 Professional Elective 3 GER 4xx German Lit. (A) 3 Gen Ed. Requirement 3 Gen Ed. Requirement 3 OCG 451 Oceanographic Science 3 <p style="text-align: right;"><b>18</b></p>	

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

- |  |   |
|--|---|
| <input type="checkbox"/> EC: _____<br><input type="checkbox"/> Ecw: _____<br><input type="checkbox"/> L (use EGR 316): _____<br><input type="checkbox"/> L (reserve for TUBS): _____ | <input type="checkbox"/> S: _____<br><input type="checkbox"/> S (use ECN 201): _____<br><input type="checkbox"/> A (400-level German Lit.): _____<br><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.)

**Social Science (S):** 6 credits, one of which is fulfilled by ECN 201, which is already required for OCE majors. Consider opting for a second course with a global focus, or a focus on Germany or Europe.

**Letters (L):** 6 credits. This will be fulfilled by the required EGR 316 on campus and “Landeskunde” (LET 151) in Braunschweig.

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

EGR 105, 106, 316; CHM 101, 102, 333; CVE 220; MTH 141, 142, 243, 244; PHY 203, 204, 205, 273, 274, 275; ECN 201; OCG 451; OCE 101, 205, 206, 215, 216, 301, 307, 310, 311, 416, 421, 471, 495, 496; two approved 3-credit professional electives in Ocean Engineering ; two approved 3-credit professional elective courses at the 300, 400 or 500 level in engineering or oceanography (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, 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!**