

GERMAN IEP – OCEAN ENGINEERING

For students entering Fall 2011 (Class of 2016)

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		
Year One	✓	Course	Cr	✓	Course	Cr
		CHM 101 General Chemistry I Lecture	3		ECN 201 Microeconomics (S)	3
		CHM 102 General Chemistry I Lab	1		EGR 106 Foundations of Engineering II	2
		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		OCE 101 Introduction to Ocean Engineering	1
		PHY 203 Elementary Physics I Lecture	3		PHY 204 Elementary Physics II	3
		PHY 273 Elementary Physics I Lab	1		PHY 274 Elementary Physics II Lab	1
	Semester Credits	16		Semester Credits	17	
		FALL		SPRING		
Year Two	✓	Course	Cr	✓	Course	Cr
		GER 103 Intermediate German I	3		CVE 220 Mechanics of Materials	3
		MCE 262 Statics	3		GER 104 Intermediate German II	3
		MTH 243 Multivariable Calculus	3		MCE 263 Dynamics	3
		OCE 205 Ocean Engineering Design Tools	4		MTH 244 Differential Equations	3
		OCE 215 Ocean Engineering Design I	1		OCE 206 Ocean Instrumentation	3
		PHY 205 Elementary Physics III	3		OCE 216 Ocean Engineering Design II	1
		PHY 275 Elementary Physics III Lab	1			
	Semester Credits	18		Semester Credits	16	
		FALL		SPRING		
Year Three	✓	Course	Cr	✓	Course	Cr
		CHE 333 Engineering Materials	3		General Education Requirement	3
		GER 205 Conversation & Composition I	3		GER 206 Conversation & Composition II	3
		MCE 354 Fluid Mechanics	3		OCE 408 Intro to Wave Mechanics and Littoral Processes	4
		OCE 301 Fundamentals of Ocean Mechanics	4		OCE 311 Coastal Measurement & Application	4
		OCE 310 Basic Ocean Measurement	3		OCE 471 Underwater Acoustics	3
	Semester Credits	16		Semester Credits	17	
		Suggested Semester Abroad		International Internship Semester		
Year Four	✓	Course	Cr	✓	Course	Cr
		EGR/GER 411 (Professional Elective*)	3		Internship in German-Speaking Country	
		General Education Requirement	3		GER 315-316	3 to 6
		General Education Requirement	3			
		GER 3xx	3 to 7			
	Professional Elective*	3				
	Semester Credits	15 to 19		Semester Credits	3 to 6	
		FALL		SPRING		
Year Five	✓	Course	Cr	✓	Course	Cr
		General Education Requirement	3		General Education Requirement	3
		GER 4xx	3		General Education Requirement	3
		OCE 416 Ocean Engineering Professional Practice	2		GER 4xx German Literature (A)	3
		OCE 421 Marine Structure Design	3		OCE 496 Ocean Systems Design Project II	3
		OCE 495 Ocean Systems Design Project I	3		OCG 451 Oceanographic Science	3
	Professional Elective*	3		Professional Elective*	3	
	Semester Credits	17		Semester Credits	18	

*Choose approved engineering, mathematics, or oceanography courses at the 300, 400, or 500 level. **A minimum of two professional electives must be in OCE.**

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: _____

S: _____
 S (use ECN 201): _____
 A (400-level German Lit.): _____

L (reserve for TUBS): _____

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). Can only take one of the following 100-level writing courses for General Education credit: **WRT 104, WRT 105, WRT 106** (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. “Landeskunde” (LET 151) in Braunschweig will fulfill 3 of these credits.

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

CHM 101, 102; CHE 333; CVE 220; ECN 201; EGR 105, 106; MCE 262, 263, 354; MTH 141, 142, 243, 244; OCE 101, 205, 206, 215, 216, 301, 408, 310, 311, 416, 421, 471, 495, 496; OCG 451; PHY 203, 204, 205, 273, 274, 275; 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, mathematics, 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!**