

# FRENCH IEP – INDUSTRIAL ENGINEERING

**For students entering Fall 2006 (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	ECN 201 Microeconomics (S)	3
	CHM 102 Lab. For Chem.	1	MTH 142 Calculus II	4
	MTH 141 Calculus I	4	FRN *	3
	PHY 203/273 Elem. Phys I & Lab.	4	PHY 204/274 Elem. Phys. II & Lab.	4
	FRN *	3	EGR 106 Foundations of Engr. II	2
	EGR 105 Foundations of Engr. I	1		<b>16</b>
	<b>16</b>			
<b>Year Two</b>	IME 240/241 Manuf. Processes & Lab	4	CVE 220 Mechanics of Materials	3
	IME 325 Computer Solutions in IME	3	ELE 220 Passive and Active Circuits	3
	MCE 262 Statics	3	IME 220 Intro to Industrial Engineering	3
	MTH 243 Calculus Several Variables	3	MCE 263 Dynamics	3
	FRN *	3	MTH 362 Advanced Engineering Math.	3
	Basic Science Elective (see catalog)	3	FRN *	3
	<b>19</b>		<b>18</b>	
<b>Year Three</b>	CHE 333 Engineering Materials	3	BUS 201 OR BUS 303	3
	IME 404 Engineering Economy	3	IME 412 Statistical Methods for Engin.	3
	IME 432 Operations Res: Deterministic	3	IME 433 Operations Res: Stochastic	3
	IME 411 Probability & Statistics	3	IME 392 Junior Project	3
	MCE 341 Thermo. OR PHY 205/275	3/4	ECN 202 Macroeconomics (S)	3
	FRN 309	3	FRN *	3
	<b>18-19</b>		<b>18</b>	
	<b>Suggested Semester Abroad</b>		<b>International Internship Semester</b>	
<b>Year Four</b>	Professional Elective	3	Internship In	
	Gen Ed. Requirement	3	French-Speaking Country	3-6
	Professional Elective	3	FRN 315-316	
	FRN *	3-9		
	<b>12-18</b>			
<b>Year Five</b>	IME 449 Product Design for Manuf.	3	IME 452 Industrial Eng. Design II	3
	IME 451 Industrial Eng. Design I	3	Professional Elective	3
	EGR 316 Engineering Ethics (L)	3	Gen Ed. Requirement	3
	Gen Ed. Requirement	3	Gen Ed. Requirement	3
	FRN 400-level (412, 473 or 474) (A)	3	FRN 400-level (422 if available)	3
	<b>15</b>		<b>15</b>	

\* French course varies depending upon student's background. Consult with Dr. Lars Erickson.

**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: _____              | <input type="checkbox"/> S (use ECN 201): _____           |
| <input type="checkbox"/> ECw: _____             | <input type="checkbox"/> S (use ECN 202): _____           |
| <input type="checkbox"/> L: _____               | <input type="checkbox"/> A (400-level French Lit.): _____ |
| <input type="checkbox"/> L (use EGR 316): _____ | <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. ECN 201 and 202, which are required for IME majors, fulfill this requirement. Consider opting for a second course with a global focus, or a focus on France or Europe.

**Letters (L):** 6 credits. EGR 316, which is required for IME majors, fulfills one such course. Consider taking a French or European History class to fulfill one of your two general education Letters requirements.

### **Fine Arts and Literature (A):**

1. **3 credits of literature:** As an IEP student the 400-level French 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 INDUSTRIAL ENGINEERING MAJOR** (See course catalog and department website for more detail.)

EGR 105, 106, 316; CHM 101, 102, and 333; MTH 141, 142, 243, 362; PHY 203, 204, 273, 274; ECN 201, 202; ELE 220; CVE 220; MCE 262, 263; MCE 341 OR PHY 205/275; IME 220, 240, 241, 325, 392, 404, 411, 412, 432, 433, 449, 451, 452; BUS 201 or 303; a basic science elective (any course for which CHM 101 is a prerequisite, incl. PHY 205, 223 and 275; any physics course at the 300-level or above or a course in astronomy, biochemistry, biology, botany, geology, microbiology or zoology. Any other courses must be approved by an advisor.); and three professional electives.

## **REQUIREMENTS FOR IEP FRENCH MAJOR** (See course catalog for more detail.)

At least 30 credits in French, not including FRN 101, 102, 391, 392, 393. You must complete at least six credits at the 400-level, three credits of which must come from FRN 412, 473, or 474.

## **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 French advisor for all IEP students is Dr. Lars Erickson ([lars@uri.edu](mailto:lars@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**. 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 French major as a non-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!**