

# FRENCH IEP – CHEMICAL 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. & Lab                    4 MTH 141 Calculus I                                4 PHY 203/273 Elem. Phys I & Lab.            4 FRN *    3 EGR 105 Foundations of Engr. I                1 <span style="float: right;"><b>16</b></span>	CHM 112/114 Gen. Chem II & Lab.            4 MTH 142 Calculus II                                4 FRN *    3 PHY 204/274 Elem. Phys. II & Lab.            4 EGR 106 Foundations of Engr. II                2 <span style="float: right;"><b>17</b></span>	
<b>Year Two</b>	CHE 212 Chem. Proc. Calc                        3 CHM 227 Organic Chem.                         3 MTH 243 Multivariable Calc.                    3 ECN 201 Micro. Econ (S)                        3 FRN *    3 Gen Ed. Requirement                             3 <span style="float: right;"><b>18</b></span>	CHE 272 Intro. ChE Calcs.                        3 CHE 313 ChE Thermo I                             3 CHE 332 Physical Metallurgy                    3 CHM 228 <b>OR</b> BCH 311 <b>OR</b> Approved Advanced Chemistry Course                    3 MTH 244 Diff Eq <b>OR</b> MTH 362 Adv. Math.    3 FRN*    3 <span style="float: right;"><b>18</b></span>	
<b>Year Three</b>	CHE 314 ChE Thermo II                            3 CHE 347 Transfer Operations I                   3 CHM 431 Phys. Chem. I                            3  CHM 335 Phys. Chem. I Lab                       2 FRN 309 French Culture & Lit to 1789        3 Gen Ed. Requirement                             3 <span style="float: right;"><b>17</b></span>	CHE 348 Trans. Oper. II                            3 CHE 464 Indus. React. Kinetics                3 CHM 432 Phys. Chem. II <b>OR</b> Approved Advanced Chemistry Course                    3 FRN *    3 Gen Ed. Requirement                             3 Gen Ed. Requirement                             3 <span style="float: right;"><b>18</b></span>	
<b>Suggested Semester Abroad</b>		<b>International Internship Semester</b>	
<b>Year Four</b>	Approved Prof. Elective                        3 Approved Math Elective                         3 Gen Ed. Requirement (One must be L)        6 FRN *    3-6 <span style="float: right;"><b>15-18</b></span>	Internship In French-Speaking Country                        3-6 FRN 315-316	
<b>Year Five</b>	ELE 405 Digital Computer Design               4 ELE 437 Computer Communications            3 ELE 480 Capstone Design Project               2 Computer Engineering Elective                3-4 FRN 400-level (412, 473 or 474) (A)        3 <span style="float: right;"><b>15-16</b></span>	ELE 481 Capstone Design Project               2 ELE 408 Comp. Organization Lab.               4 Computer Engineering Elective                3-4 CSC 412 Operating Systems                    4 FRN 400-level (422 if available)               3 ELE 400 Intro. To Prof. Practice               1 <span style="float: right;"><b>17-18</b></span>	

\* 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: _____                         |
| <input type="checkbox"/> ECw: _____ | <input type="checkbox"/> S (use ECN 201): _____           |
| <input type="checkbox"/> L: _____   | <input type="checkbox"/> A (400-level French Lit.): _____ |
| <input type="checkbox"/> L: _____   | <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 CHE majors. Consider opting for a second course with a global focus, or a focus on France or Europe.

**Letters (L):** 6 credits. 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 CHEMICAL ENGINEERING MAJOR** (See course catalog and department website for more detail.)

EGR 105, 106; CHE 212, 272, 313, 332, 314, 347, 348, 464, 328, 345, 349, 351, 425, 346, 352; CHM 101, 102, 112, 114, 227, 228 or approved advanced chemistry course, 335, 431, 432 or approved advanced chemistry course; MTH 141, 142, 243, 244 or 362, and an approved math elective; PHY 203, 204, 273, 274; ECN 201; 4 approved professional electives (one of which may be fulfilled with prior approval by FRN/EGR 422 when available.)

## **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). 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 French 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!**