

FRENCH IEP – MECHANICAL ENGINEERING

Freshmen 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		
Year One	CHM 101 Gen. Chem.	3	Gen. Ed. Requirement (ECw)	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	16	16
16				
Year Two	MCE 201 Graphics for Mec. Eng.	3	CVE 220 Mechanics of Materials	3
	MCE 262 Statics	3	ELE 220 Electric Circuits	3
	PHY205/275 Elem. PHY III & Lab.	4	MCE 263 Dynamics	3
	MTH 243 Calculus of Sev. Var.	3	MTH 244 Differentials Equations	3
	FRN *	3	FRN *	3
		16	Gen Ed. Requirement	3
16		18		
Year Three	CHE 333 Engineering Materials	3	ECN 201 Micro. Econ. (S)	3
	FRN 309	3	FRN*	3
	IME 240 Manufacturing Process.	3	MCE 302 Design of Machines	3
	MCE 301 Appl. Mechanical Des.	3	MCE 313 Int. Mech. Engr. Exper.	3
	MCE 341 Thermodynamics	3	MCE 354 Fluid Mechanics	3
	MCE 372 Engineering Analysis	3	MCE 366 System Dynamics	3
18		18		
Suggested Semester Abroad		International Internship Semester		
Year Four	Professional Elective (see notes)	3	3-6	
	Professional Elective (within MCE)	3		
	Gen Ed. Requirement	3		
	FRN *	3		
	FRN *	3		
	(or swap one of the above with a direct equivalent COE course from another semester)	15		
15				
Year Five	MCE 401 Mechanical Sys. Design	3	EGR 316 Engineering Ethics (L)	3
	MCE 414 Mech. Engr. Exper.	3	MCE 402 Thermal Systems Design	3
	MCE 448 Heat Transfer	3	Professional Elective (within MCE)	3
	Professional Elective (within MCE)	3	Gen Ed. Requirement	3
	Gen Ed. Requirement (EC)	3	FRN 400-level (422 if available)	3
	FRN 400-level (412, 473 or 474) (A)	3	15	15
18				

* 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.)

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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 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.) 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 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 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 are subject to URI rules on transfer credit and require *prior written approval*.

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!**