FRENCH IEP – MECHANICAL ENGINEERING

For students entering Fall 2010 (Class of 2015)

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	EGR 106 Foundations of Engineering		2
	CHM 102 General Chemistry I Lab	1	FRN*		3
	EGR 105 Foundations of Engineering I	1	General Education Requirement (ECw)		3
	FRN *	3	MTH 142 Intermediate Calculus w/ Analytic Geometry		4
	MTH 141 Intro Calculus w/ Analytic Geometry	4	PHY 204 Elementary Physics II		3
	PHY 203 Elementary Physics I Lecture	3	PHY 274 Elementary Physics II Lab		1
	PHY 273 Elementary Physics I Lab	1			
	Semester Credits	**16**	**Semester Credits**		**16**
	FALL		**SPRING**		
Year Two	✓ Course	Cr	✓ Course		Cr
	FRN *	3	CVE 220 Mechanics of Materials		3
	MCE 201 Graphics for MCE	3	ELE 220 Passive and Active Circuits		3
	MCE 262 Statics	3	FRN*		3
	MTH 243 Calculus for Functions of Several Variables	3	General Education Requirement		3
	PHY 205 Elementary Physics III Lecture	3	MCE 263 Dynamics		3
	PHY 275 Elementary Physics III Lab	1	MTH 244 Differential Equations		3
			ISE 220 Industrial and Systems Egr Seminar		1
	Semester Credits	**16**	**Semester Credits**		**19**
	FALL		**SPRING**		
Year Three	✓ Course	Cr	✓ Course		Cr
	FRN 309 French Culture & Lit to 1789 (A)	3	ECN 201 Principles of Microeconomics (S)		3
	ISE 240 Manufacturing Processes	3	FRN*		3
	MCE 301 Application of Mechanics in Design	3	MCE 302 Design of Machinery		3
	MCE 341 Fundamentals of Thermodynamics	3	MCE 313 Intro to MCE Experimentation		3
	MCE 354 Fluid Mechanics	3	MCE 366 System Dynamics		3
	MCE 372 Engineering Analysis I	3	MCE 348 Heat and Mass Transfer		3
	Semester Credits	**18**	**Semester Credits**		**18**
	Suggested Semester Abroad		**International Internship Semester**		
Year Four	✓ Course	Cr	✓ Course		Cr
	FRN*	3			
	FRN*	3	Internship in French-Speaking Country		
	General Education Requirement	3	FRN 315-316		3 to 6
	Professional Elective (see notes)	3			
	Professional Elective (within MCE)	3			
	(or swap one of the above with a direct equivalent course from another semester)				
	Semester Credits	**15**	**Semester Credits**		**3 to 6**
	FALL		**SPRING**		
Year Five	✓ Course	Cr	✓ Course		Cr
	CHE 333 Engineering Materials	3	FRN 4xx (422 if available)		3
	FRN 4xx (412, 473, or 474) (A)	3	General Education Requirement		3
	ISE 241 Manufacturing Processes Lab	1	General Education Requirement		3
	MCE 401 Mechanical System Design	3	General Education Requirement		3
	MCE 414 MCE Experimentation	3	MCE 402 Thermal Systems Design		3
	Professional Elective (within MCE)	3	Professional Elective (within MCE)		3
	Semester Credits	**16**	**Semester Credits**		**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.)

☐ EC (COM 100 or WRT 333 recommended):_____ ☐ S: _____
☐ ECw (WRT 104 or 106 recommended): _____ ☐ S (use ECN 201):_____
☐ L: _____ ☐ A (400-level French Lit.): _____
☐ L: _____ ☐ 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 are fulfilled automatically through your progress toward your two degrees (B.S. in Engineering and B.A. in a Language).

REQUIREMENTS FOR MECHANICAL ENGINEERING MAJOR (See course catalog and department website for more detail.)

CHM 101, 102, 333; CVE 220; ECN 201; EGR 105, 106; ELE 220; ISE 240, 241; MCE 201, 262, 263, 301, 302, 313, 341, 354, 366, 372, 401, 402, 414, 448; MTH 141, 142, 243, 244; PHY 203, 204, 205, 273, 274, 275; 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!