

FRENCH IEP – COMPUTER ENGINEERING

For students entering Fall 2009 (Class of 2014)

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				
	✓ Course	Cr		✓ Course	Cr	
Year One	CHM 101 General Chemistry I Lecture	3		EGR 106 Foundations of Engineering II	2	
	CHM 102 General Chemistry I Lab	1		ELE 208 Intro to Computing Systems	2	
	EGR 105 Foundations of Engineering I	1		ELE 209 Intro to Computing Systems Lab	1	
	FRN*	3		FRN*	3	
	MTH 141 Intro Calculus w/ Analytic Geometry	4		MTH 142 Intermed Calculus w/ Analytic Geometry	4	
	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		16
FALL		SPRING				
	✓ Course	Cr		✓ Course	Cr	
Year Two	CSC 211 Introductory Programming and Design	4		CSC 212 Data Structures and Abstractions	4	
	ELE 201 Digital Circuit Design	3		ELE 212 Linear Circuit Theory	3	
	ELE 202 Digital Circuit Design Lab	1		ELE 215 Linear Circuits Lab	2	
	FRN*	3		FRN*	3	
	General Education Requirement (ECw)	3		General Education Requirement	3	
	MTH 362 Advanced Engineering Mathematics I	3		MTH 243 Calc for Functions of Several Variables	3	
	Semester Credits		17		Semester Credits	
FALL		SPRING				
	✓ Course	Cr		✓ Course	Cr	
Year Three	ELE 305 Intro to Computer Architecture	3		ECN 201 Microeconomics (S)	3	
	ELE 313 Linear Systems	3		ELE 301 Electronic Design Automation	3	
	ELE 338 Electronics I	3		ELE 302 Electronic Design Automation Lab	1	
	ELE 339 Electronics I Lab	1		FRN*	3	
	FRN 309 French Culture and Lit to 1789	3		General Education Requirement	3	
	General Education Requirement	3		General Education Requirement	3	
	Semester Credits		16		Semester Credits	
Suggested Semester Abroad		International Internship Semester				
	✓ Course	Cr		✓ Course	Cr	
Year Four	Computer Engineering Elective**	3 to 4		Internship in French-Speaking Country		
	FRN*	3		FRN 315-316	3 to 6	
	FRN*	3				
	General Education Requirement	3				
	MTH 451 Intro to Probability and Statistics	3				
Semester Credits		15 to 16		Semester Credits		3 to 6
FALL		SPRING				
	✓ Course	Cr		✓ Course	Cr	
Year Five	ELE 400 Intro to Professional Practice	1		Computer Engineering Elective**	3 to 4	
	ELE 405 Digital Computer Design	3		ELE 408 Computer Organization	3	
	ELE 406 Digital Computer Design Lab	1		ELE 409 Computer Organization Lab	1	
	ELE 437 Computer Communications	3		ELE 481 Capstone Design II	3	
	ELE 480 Capstone Design Project I	3		FRN 4xx (422 if available)	3	
	FRN 4xx (412, 473 or 474) (A)	3		Computer Engineering Elective**	3	
	Semester Credits		14		Semester Credits	

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

** **Three** Computer Engineering Electives chosen from: any ELE 300- or 400-level course not otherwise required by the major, any ELE 500-level course with petition, BME/ELE 461, BME 462, BME 464/465, and CSC 301, 305, 402, 406, 412, 415, 436, and 481; EGR/FRN 422 with prior approval if available.

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: _____
- L: _____

- S: _____
- S (use ECN 201): _____
- A (400-level French Lit.): _____
- 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 CMP 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 COMPUTER ENGINEERING MAJOR (See course catalog and department website for more detail.)

CHM 101, 102; CSC 211, 212; ECN 201; EGR 105, 106; ELE 201, 202, 208, 209, 212, 215, 301, 302, 305, 313, 338, 339, 400, 405, 408, 437, 480, 481; MTH 141, 142, 243, 362, 451; MTH/CSC 447; PHY 203, 204, 273, 274; three computer engineering electives from approved list (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!**