

# FRENCH IEP – CIVIL ENGINEERING

**For students entering Fall 2011 (Class of 2016)**

*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		
<b>Year One</b>	✓	<b>Course Description</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		CHM 101 General Chemistry I Lecture	3		ECN 201 Microeconomics (S)	3
		CHM 102 General Chemistry I Lab	1		EGR 106 Foundations of Engineering II	2
		EGR 105 Foundations of Engineering I	1		FRN*	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			
	<b>Semester Credits</b>	<b>16</b>		<b>Semester Credits</b>	<b>16</b>	
		FALL		SPRING		
<b>Year Two</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		CVE 205 Intro to Civil Engineering Tools	2		CVE 220 Mechanics of Materials	3
		FRN*	3		CVE 230 Mechanics of Materials Lab	1
		CHM 112 General Chemistry II Lecture	3		FRN*	3
		GEO 103 Understanding the Earth	4		General Education Requirement (COM 100 or WRT 104)	3
		MCE 262 Statics	3		MCE 263 Dynamics	3
		MTH 243 Multivariable Calculus	3		MTH 244 Differential Equations	3
	<b>Semester Credits</b>	<b>18</b>		<b>Semester Credits</b>	<b>16</b>	
		FALL		SPRING		
<b>Year Three</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		CVE 346 Transportation Engineering	3		CVE 347 & 348 Highway Engineering & Lab	4
		CVE 354 & 355 Structural Analysis & Lab	4		CVE 370 Hydraulic Engineering	3
		CVE 374 Environmental Engineering	3		CVE 375 Environmental Engineering Lab	1
		FRN*	3		MCE 341 Fundamentals of Thermodynamics	3
		MCE 354 Fluid Mechanics	3		FRN 309 French Culture & Lit to 1789 (A)	3
		General Education Requirement	3		General Education Requirement	3
	<b>Semester Credits</b>	<b>19</b>		<b>Semester Credits</b>	<b>17</b>	
		Suggested Semester Abroad		International Internship Semester		
<b>Year Four</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		FRN*	6			
		General Education Requirement	3		Internship in French-Speaking Country	
		Professional Elective***	3		FRN 315-316	3 to 6
		STA 409 Statistical Methods in Research I	3			
	<b>Semester Credits</b>	<b>15</b>		<b>Semester Credits</b>	<b>3 to 6</b>	
		FALL		SPRING		
<b>Year Five</b>	✓	<b>Course</b>	<b>Cr</b>	✓	<b>Course</b>	<b>Cr</b>
		CVE 381 & 382 Geotechnical Engineering & Lab	4		CVE 483 Foundation Engineering	3
		CVE 465 Concrete Structures	3		CVE 498 Civil Engineering Design II	3
		CVE 497 Civil Engineering Design I	2		General Education Requirement	3
		FRN 400-level (412, 473, or 474) (A)	3		ISE 404 Eng. Economy & Project Planning	3
		CVE 400 Civil Engineering Licensure	1		Professional Elective***	3
		CVE 465 Analysis & Design of Concrete Structures	3		Professional Elective***	3
	<b>Semester Credits</b>	<b>16</b>		<b>Semester Credits</b>	<b>18</b>	

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

\*\* Select from the list of the Civil Engineering Undergraduate Student Handbook.

\*\*\* 3 of the 12 credits must be from one of the following courses: CVE 470, 471, 475, 478.

\*\*\*\* Free Elective (Recommend a CVE Professional Elective to satisfy this requirement.)

**GEN ED TALLY** (See reverse for special notes about General Education Requirements and consult with the course catalog and your 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). Can only take one of the following 100-level writing courses for General Education credit: **WRT 104, WRT 105, WRT 106** (ECw).

**Social Science (S):** 6 credits, one of which is fulfilled by ECN 201, which is already required for CVE 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 CIVIL ENGINEERING MAJOR** (See course catalog and department website for more detail.)

CHM 101, 102; CVE 205, 220, 230, 346, 347, 348, 354, 355, 370, 374, 375, 381, 382, 465, 483, 497, 498; ECN 201; EGR 105, 106; GEO 103; MCE 262, 263, 354MTH 141, 142, 243, 244; PHY 203, 204, 273, 274; STA 409; four professional electives (one may be fulfilled by FRN/EGR 422 with prior approval; one **must** be selected from the following: CVE 470, 471, 475, 478); one engineering elective (select from the list of the Civil Engineering Undergraduate Student Handbook); one Free Elective (Recommend a CVE Professional Elective to satisfy this requirement).

## **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 of 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. You can check with your engineering department to find out who has been assigned as your engineering advisor.
- **Your general education requirements are for a B.A. (not a B.S.) as 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.
- 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!