

SPANISH IEP - B-Level – CIVIL 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	
Year One	CHM 101 Gen. Chem. 3 CHM 102 Lab. For Chem. 1 EGR 105 Foundations of Engr. I 1 MTH 141 Calculus I 4 PHY 203/273 Elem. Phys I & Lab. 4 SPA 103 Intermediate Spanish 3 <hr style="width: 100%;"/> 16	ECN 201 Microeconomics (S) 3 EGR 106 Foundations of Engr. II 2 PHY 204/274 Elem. Phys. II & Lab. 4 MTH 142 Calculus II 4 SPA 104 Intermediate Spanish 3 <hr style="width: 100%;"/> 16	
Year Two	CVE 240/241 Geomatics & Lab. 4 CVE 250 CADD for Civil Engineers 3 MCE 262 Statics 3 MTH 243 Calculus III 3 SPA 205 Spanish Lang. & Style I 3 Gen. Ed. Requirement (COM 100 or WRT 104) 3 <hr style="width: 100%;"/> 19	CVE 220 Mechanics of Materials 3 CVE 221 Mechanics of Materials Lab. 1 MCE 263 Dynamics 3 MTH 244 Differential Equations 3 SPA 206 Spanish Lang. & Style II 3 Gen. Ed. Requirement 3 <hr style="width: 100%;"/> 16	
Year Three	CVE 346 Transportation Engineering 3 CVE 354/355 Structural Engrg. & Lab 4 CVE 374/375 Environmental Engrg. & Lab. 4 MCE 354 Fluid Mechanics 3 SPA 312 Advanced Spanish 3 <hr style="width: 100%;"/> 17	CVE 370/371 Hydraulic Engrg. & Lab. 4 CVE 347/348 Highway Engrg. & Lab. 4 GEO 103 Geology & Lab. 4 SPA 321 Pre-Internship Spanish 3 Gen Ed. Requirement 3 <hr style="width: 100%;"/> 18	
Suggested Semester Abroad		International Internship Semester	
Year Four	EGR/SPA 412 (Technical Elective/Adv.Tech Span.) 3 SPA 325 Intro. to Literary Genres 3 STA 409 Statistical Methods in Rsch. I 3 Gen. Ed. Requirement 6 <hr style="width: 100%;"/> 15	Internship In Spanish-Speaking Country 3-6 SPA 316-317	
Year Five	CVE 381/382 Geotechnical Engrg. & Lab. 4 CVE 465/466 Concrete Struct. & Lab. 4 CVE 497 Civil Engineering Design I 2 ^a CVE Professional Elective 3 400-Level Spanish Lit. (A) 3 <hr style="width: 100%;"/> 16	CVE 483 Foundation Engineering 3 CVE 498 Civil Engineering Design II 3 ^a CVE Professional Elective 3 ^a CVE Professional Elective 3 Gen. Ed. Requirement 3 <hr style="width: 100%;"/> 15	

^aThree of the *nine* credits of Professional Electives **must** be selected from the following courses; CVE 470, 471, 475, 478.

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 Span 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 CVE majors. Consider opting for a second course with a global focus, or a focus on Latin America or Europe.

Letters (L): 6 credits. Consider taking a Latin American History class, such as HIS 180, 381 or 382, 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 Spanish 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 degrees in both engineering and a language.

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

EGR 105, 106; CHM 101, 102; MTH 141, 142, 243, 244; PHY 203, 204, 273, 274; ECN 201; STA 409; CVE 220, 221, 240, 241, 250, 346, 347, 348, 354, 355, 370, 371, 374, 375, 381, 382, 465, 466, 483, 497, 498; three professional electives (one may be fulfilled by SPA/EGR 412 with prior approval; one must be selected from the following: CVE 470, 471, 475, 478)

REQUIREMENTS FOR IEP SPANISH MAJOR (See course catalog for more detail.)

30 credits in SPA at the 103-level and above, including 312, 316, 317, 321, 325, a 400-level engineering course taught in Spanish, and a 400-level literature course. IEP students beginning their study of Spanish at the 200-level or higher may opt to take up to six credits of Portuguese toward the completion of the major in Spanish. SPA 321 must be taken prior to the internship experience. SPA/EGR 412 is taken post-internship, or fulfilled by a course abroad by prior approval; this course may satisfy a professional elective for the CVE major.

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 Spanish advisor for all IEP students is Dr. Robert Manteiga. You can check with your engineering department to find out who has been assigned as your 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 Spanish 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 (Dr. Manteiga) to make sure that you are fulfilling all requirements for both majors and your general education requirements!**