

# SPANISH IEP – B-Level – COMPUTER ENGINEERING

**For students entering Fall 2006 (IEP Class 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	
	<b>Year One</b>			
	CHM 101 Gen. Chem.	3	ELE 208 Intro. to Computer Systems	3
	CHM 102 Lab. For Chem.	1	MTH 142 Calculus II	4
	MTH 141 Calculus I	4	SPA 104 Intermediate Spanish	3
	PHY 203/273 Elem. Phys I & Lab.	4	PHY 204/274 Elem. Phys. II & Lab.	4
	SPA 103 Intermediate Spanish	3	EGR 106 Foundations of Engr. II	2
	EGR 105 Foundations of Engr. I	1		<b>16</b>
		<b>16</b>		
	<b>Year Two</b>			
	CSC 211 Intro. Programming & Design	4	ELE 212 Linear Circuit Theory	3
	MTH 362 Adv. Engr. Math I	3	ELE 215 Linear Circuit Lab.	2
	ELE 201 Digital Circuit Design	3	MTH 243 Calculus III	3
	ELE 202 Digital Circuit Design Lab.	1	CSC 212 Data Structures & Abstractions	4
	SPA 205 Spanish Lang. & Style	3	SPA 206 Spanish Lang. & Style	3
		<b>14</b>	Gen Ed. Requirement	3
				<b>18</b>
	<b>Year Three</b>			
	ELE 305 Intro. to Comp. Architecture	3	ELE 306 Electronic Design Automation	4
	ELE 313 Linear Systems	3	ECN 201 Microeconomics (S)	3
	ELE 342 Electronics I	4	MTH/CSC 447 Discrete Mth. Strs.	3
	Gen Ed. Requirement	3	Gen Ed. Requirement	3
	SPA 312 Advanced Spanish	3	SPA 321 Pre-Internship Spanish	3
	MTH 451 Intro. to Prob. & Stats.	3		<b>16</b>
		<b>19</b>		
	<b>Suggested Semester Abroad</b>		<b>International Internship Semester</b>	
	<b>Year Four</b>			
	EGR/SPA 412 (Fulfills a Comp. Eng Elective)	3	Internship In	
	Gen Ed. Requirement	3	Spanish-Speaking Country	3-6
	Gen Ed. Requirement	3	SPA 316-317	
	SPA 325 Intro. to Literary Genres	3		
		<b>12</b>		
	<b>Year Five</b>			
	ELE 405 Digital Computer Design	4	ELE 481 Capstone Design Project	2
	ELE 437 Computer Communications	3	ELE 408 Comp. Organization Lab.	4
	ELE 480 Capstone Design Project	2	Computer Engineering Elective	3-4
	Computer Engineering Elective	3-4	CSC 412 Operating Systems	4
	400-Level Spanish Lit. (A)	3	Gen Ed. Requirement	3
		<b>15-16</b>	ELE 400 Intro. To Prof. Practice	1
				<b>17-18</b>

**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 CMP 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 COMPUTER ENGINEERING MAJOR** (See course catalog and department website for more detail.)

EGR 105, 106; CHM 101, 102; MTH 141, 142, 243, 362, 451; PHY 203, 204, 273, 274; ECN 201; CSC 211, 212, 412; MTH/CSC 447; ELE 201, 202, 212, 215, 305, 306, 313, 342, 400, 405, 408, 437, 480, 481; three computer engineering electives from approved list (one of which may be replaced by SPA/EGR 412 with prior approval and when available.)

## **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.

## **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 (roberto@uri.edu). You can check with your engineering department to find out who has been assigned as your 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 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!**