

**THE  
UNIVERSITY  
OF RHODE ISLAND**

**ACADEMIC MAP**  
SPANISH IEP Track B -  
INDUSTRIAL & SYSTEMS ENGINEERING  
Entering year: 2015

Spanish IEP students pursue two degrees simultaneously: a B.S. in an engineering discipline and a B.A. in Spanish. Spanish IEP students study abroad in Spain, Mexico or Chile. Spanish partner universities include the University of Navarra, University of Cantabria and University of Zaragoza. In Mexico, the program partners with the Monterrey Institute of Technology and Higher Education, and in Chile, with Pontificia Universidad Católica de Valparaiso in Chile. After their semester at a partner university, students complete internships in Spain or in Latin America. Students have interned at Hilti in Spain and Sensata in Mexico, among other companies. For more information, see <http://uri.edu/iep/>.

## Year 1

SEMESTER 1	CREDITS
CHM 101*	3
CHM 102*	1
EGR 105*	1
MTH 141*	4
Gen Ed	3
SPA 103	3
<b>TOTAL CREDITS</b>	<b>15</b>

SEMESTER MILESTONES
Overall GPA 2.00
*Complete with "C-" or better
Meet with UC engineering advisor - Required
Enroll in IEP and attend IEP Orientation in Fall

SEMESTER 2	CREDITS
ECN 201	3
EGR 106*	2
MTH 142*	4
PHY 203*	3
PHY 273*	1
SPA 104	3
<b>TOTAL CREDITS</b>	<b>16</b>

SEMESTER MILESTONES
Overall GPA 2.00
*Complete with "C-" or better
Meet with EGR advisor - Required
Meet with IEP advisor - Required

## Year 2

SEMESTER 3	CREDITS
ISE 240	3
ISE 241	1
MCE 262	3
MTH 243	3
PHY 204*	3
PHY 274*	1
SPA 205	3
<b>TOTAL CREDITS</b>	<b>17</b>

SEMESTER MILESTONES
Overall GPA 2.00
*Complete with "C-" or better
Meet with engineering advisor - Required
Eligible to move from UC to COE (see UC requirements)

SEMESTER 4	CREDITS
CVE 220	3
ISE 220	1
MCE 263	3
MTH 362 or MTH 244	3
PHY 205	3
PHY 275	1
SPA 206	3
<b>TOTAL CREDITS</b>	<b>17</b>

SEMESTER MILESTONES
Overall GPA 2.00
Meet with engineering advisor - Required
Meet with IEP advisor - Required

## Year 3

SEMESTER 5	CREDITS
CHE 333	3
MCE 201	3
ISE 325	3
ISE 411	3
ISE 432	3
SPA 325	3
TOTAL CREDITS	18

SEMESTER MILESTONES
Overall GPA 2.00
Meet with EGR advisor - Required
Study abroad preparation meetings with IEP advisor

SEMESTER 6	CREDITS
BUS 201	3
ELE 220	3
ISE 404	3
ISE 412	3
ISE 433	3
SPA 321	3
TOTAL CREDITS	18

SEMESTER MILESTONES
Overall GPA 2.5 to be eligible for study abroad year
Meet with EGR advisor - Required
Study/work abroad preparation with IEP advisor

## Year 4

SEMESTER 7	CREDITS
EGR/SPA 412 (professional elective)	3
Gen Ed	3
Gen Ed	3
Engineering course	3
SPA 3xx or 4xx	3
Gen Ed	3
TOTAL CREDITS	18

SEMESTER MILESTONES
Semester of study at partner university abroad
Email EGR advisor to lift Spring advising hold

SEMESTER 8	CREDITS
SPA 316-317	3-6
TOTAL CREDITS	3-6

SEMESTER MILESTONES
Complete international engineering internship
Email EGR advisor to lift Fall advising hold

## Year 5

SEMESTER 9	CREDITS
ISE 401	3
ISE 451	3
EGR 316 or PHL 212	3
Professional elective	3
Gen Ed	3
SPA 4xx	3
TOTAL CREDITS	18

SEMESTER MILESTONES
Overall GPA 2.00
Meet with EGR advisor to complete COE Intent to Graduate form - Required
Meet with IEP advisor for credit transfers and A&S Intent to Graduate form - Required
Schedule COE Exit Interview

SEMESTER 10	CREDITS
ISE 402	3
Professional elective	3
Professional elective	3
Professional elective	3
Gen Ed	3
SPA 4xx (Lit)	3
TOTAL CREDITS	18

SEMESTER MILESTONES
Overall GPA 2.00
Meet with EGR advisor - Required

**GENERAL EDUCATION CHECK LIST**

English Communication (EC): \_\_\_\_\_

English Communication (ECw): \_\_\_\_\_

Letters (L): \_\_\_\_\_

Letters (L): \_\_\_\_\_

Social Science: \_\_\_\_\_

Social Science (use ECN 201): \_\_\_\_\_

Literature (400-level SPA Lit.): \_\_\_\_\_

Fine Arts: \_\_\_\_\_

**BASIC LIBERAL STUDIES (GEN ED) REQUIREMENTS** (See course catalog for more detail.)

**English Communications (EC):** 6 credits, must include 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 course fulfilled by ECN 201, which is already required for engineering majors. Consider opting for a second course with a global or Spanish focus.

**Letters (L):** 6 credits. Consider taking a Spanish History or Philosophy 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 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. Consider taking a course with a Spanish focus.

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 THE INDUSTRIAL ENGINEERING MAJOR** (See course catalog and department website for more detail.) BUS 201 or 303; CHM 101, 102, and 333; CVE 220; ECN 201, 202; EGR 105, 106, 316; ELE 220; ISE 220, 240, 241, 325, 404, 411, 412, 432, 433, 449, 451, 452; MCE 262, 263; MCE 341 OR PHY 205/275; MTH 141, 142, 243, 362; PHY 203, 204, 273, 274; a basic science elective (any course for which CHM 101 is a prerequisite, incl. PHY 205, 223 and 275; any physics course at the 300-level or above or a course in astronomy, biochemistry, biology, botany, geology, microbiology or zoology. Any other courses must be approved by an advisor.); and five professional electives (one may be fulfilled by EGR/SPA 412 with prior approval).

**REQUIREMENTS FOR IEP SPANISH MAJOR** (See course catalog for more detail.) 30 credit 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.

**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. Check with your engineering department and the IEP website for more information.
- Your general education requirements are determined by the College of Arts & Sciences Basic Liberal Studies Program for a Bachelor of Arts (not a B.S.). Consult the course catalog for details and verify any Gen Ed 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 to make sure that you are fulfilling all requirements for both majors and your general education requirements.