

**THE
UNIVERSITY
OF RHODE ISLAND**

**ACADEMIC MAP
SPANISH IEP TRACK B -
BIOMEDICAL 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 |
| ECN 201 | 3 |
| SPA 103 | 3 |
| TOTAL CREDITS | 15 |

| 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 |
|---------------|---------|
| EGR 106* | 2 |
| MTH 142* | 4 |
| PHY 203* | 3 |
| PHY 273* | 1 |
| BME 181 | 1 |
| CHM 124 | 3 |
| SPA 104 | 3 |
| TOTAL CREDITS | 17 |

| 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 |
|---------------|---------|
| BIO 121 | 4 |
| BME 281 | 1 |
| ELE 201 | 3 |
| ELE 202 | 1 |
| MTH 362 | 3 |
| PHY 204* | 3 |
| PHY 274* | 1 |
| SPA 205 | 3 |
| TOTAL CREDITS | 19 |

| 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 |
|---------------|---------|
| BIO 242 | 3 |
| BIO 244 | 1 |
| BME 207 | 3 |
| ELE 212 | 3 |
| ELE 215 | 2 |
| MTH 243 | 3 |
| SPA 206 | 3 |
| TOTAL CREDITS | 18 |

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

Year 3

| SEMESTER 5 | CREDITS |
|---------------|---------|
| BIO 341 | 3 |
| BME 307 | 3 |
| ELE 313 | 3 |
| BME 360 | 3 |
| BME 361 | 1 |
| SPA 325 | 3 |
| TOTAL CREDITS | 16 |

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

| SEMESTER 6 | CREDITS |
|--------------------|---------|
| BME 362 | 3 |
| BME 363 | 1 |
| ELE 314 | 3 |
| ISE 411 or STA 409 | 3 |
| Gen Ed | 3 |
| SPA 321 | 3 |
| TOTAL CREDITS | 16 |

| 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 |
| TOTAL CREDITS | 15 |

| 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 |
|---------------|---------|
| BME 461 | 3 |
| BME 464 | 3 |
| BME 465 | 1 |
| BME 484 | 3 |
| ELE 400 | 1 |
| Gen Ed | 3 |
| SPA 4xx | 3 |
| TOTAL CREDITS | 17 |

| SEMESTER MILESTONES |
|---|
| 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 |
|---------------|---------|
| BME 466 | 3 |
| BME 468 | 3 |
| BME 485 | 2 |
| Gen Ed | 3 |
| Gen Ed | 3 |
| SPA 4xx (Lit) | 3 |
| TOTAL CREDITS | 17 |

| 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 BIOMEDICAL ENGINEERING MAJOR (See course catalog and department website for more detail.) BIO 121, 242, 244, 341; BME 181, 207, 281, 307, 360, 361, 362, 363, 461, 464, 465, 466, 468, 484, 485; CHM 101, 102, 124; ECN 201; EGR 105, 106; ELE 201, 202, 212, 215, 313, 314, 400; MTH 141, 142, 243, 362; PHY 203, 204, 273, 274; STA 409 or ISE 411; one engineering elective from the following: CHE 333, 347, 574; CSC 522; ELE 332, 338/339, 343/344, 435/436, 437, 438, 444/445, 447/448, 458/459, 501, 506; HPR 323; ISE 404, 412; MCE 341, 354, 372; MTH 442, 451, 462, 471.

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.