

SPANISH IEP – A-Level – MECHANICAL ENGINEERING

Freshmen 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 MTH 141 Calculus I 4 PHY 203/273 Elem. Phys I & Lab. 4 SPA 205 Spanish Lang. & Style 3 EGR 105 Foundations of Engr. I 1 16	Gen. Ed. Requirement (ECw) 3 MTH 142 Calculus II 4 SPA 206 Spanish Lang. & Style 3 PHY 204/274 Elem. Phys. II & Lab. 4 EGR 106 Foundations of Engr. II 2 16	
Year Two	MCE 201 Graphics for Mec. Eng. 3 MCE 262 Statics 3 PHY205/275 Elem. PHY III & Lab. 4 MTH 243 Calculus of Sev. Var. 3 SPA 312 Advanced Spanish 3 16	CVE 220 Mechanics of Materials 3 ELE 220 Electric Circuits 3 MCE 263 Dynamics 3 MTH 244 Differentials Equations 3 SPA 321 Pre-Internship Spanish 3 15	
Year Three	CHE 333 Engineering Materials 3 SPA 325 Intro. To Literary Genre 3 IME 340 Manufacturing Process. 3 MCE 301 Appl. Mechanical Des. 3 MCE 341 Thermodynamics 3 MCE 372 Engineering Analysis 3 18	ECN 201 Micro. Econ. (S) 3 SPA 3xx, 4xx or POR xxx 3 MCE 302 Design of Machines 3 MCE 313 Int. Mech. Engr. Exper. 3 MCE 354 Fluid Mechanics 3 MCE 366 System Dynamics 3 18	
Suggested Semester Abroad		International Internship Semester	
Year Four	Professional Elective (see notes) 3 Gen Ed. Requirement (or swap with a direct equivalent COE or SPA course from another semester) 3 Gen Ed. Requirement 3 Gen Ed. Requirement 3 SPA 3xx, 4xx or POR xxx 3 15	Internship In Spanish-Speaking Country 3-6 SPA 316-317	
Year Five	MCE 401 Mechanical Sys. Design 3 MCE 414 Mech. Engr. Exper. 3 MCE 448 Heat Transfer 3 Professional Elective (within MCE) 3 SPA 400-Level Lit. (A) 3 15	EGR 316 Engineering Ethics (L) 3 MCE 402 Thermal Systems Design 3 Professional Elective (within MCE) 3 Gen Ed. Requirement (EC) 3 EGR/SPA 412 (Professional Elective/Adv. Tech Spanish) 3 15	

GEN ED TALLY (See special notes about General Education Requirements on the reverse and consult with the university catalog and your major advisors.)

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| <input type="checkbox"/> EC (COM 100 or WRT 333 recommended): _____ | <input type="checkbox"/> S: _____ |
| <input type="checkbox"/> ECw (WRT 104 or 106 recommended): _____ | <input type="checkbox"/> S (use ECN 201): _____ |
| <input type="checkbox"/> L (use EGR 316): _____ | <input type="checkbox"/> A (400-level Spanish Lit.): _____ |
| <input type="checkbox"/> L: _____ | <input type="checkbox"/> 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.) The Dept. of Mechanical Engineering suggests that you take either WRT 104 OR WRT 106 to fulfill the Ecw requirement, and either COM 100 or WRT 333 as your second EC course.

Social Science (S): 6 credits, one of which is fulfilled by ECN 201, which is already required for MCE majors. Consider opting for a second course with a global focus, or a focus on Latin America, Spain or Europe.

Letters (L): 6 credits. Consider taking a Latin American History class such as HIS 180, 381, 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 a 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.

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

EGR 105, 106, 316; CHM 101, 102, 333; CVE 220; ELE 220; IME 240; MTH 141, 142, 243, 244; PHY 203, 204, 205, 273, 274, 275; ECN 201; MCE 201, 262, 263, 301, 302, 313, 341, 354, 366, 372, 401, 402, 414, 448; three MCE professional electives (2 of which must be taken at URI) and one additional professional elective (300-, 400- or 500-level course offered by the COE, or Dept. of: Chemistry, Physics, or Computer Science & Statistics; or a 400- or 500-level mathematics course.) Professional electives taken outside of URI are subject to URI rules on transfer credit and require *prior written approval*.

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 also satisfy an engineering professional elective.

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 engineering 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 to make sure that you are fulfilling all requirements for both majors and your general education requirements!**