# CHINESE IEP Track B - COMPUTER ENGINEERING

For students entering Fall 2013 (Graduating class of 2018)

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** | **SPRING**
---|---
### Year One
- **Course** | **Cr** | **Course** | **Cr**
- CHM 101 General Chemistry I Lecture | 3 | EGR 106 Foundations of Engineering II | 2
- CHM 102 General Chemistry I Lab | 1 | ELE 208 Intro to Computing Systems | 2
- EGR 105 Foundations of Engineering I | 1 | ELE 209 Intro to Computing Systems Lab | 1
- MTH 141 Intro Calculus w/ Analytic Geometry | 4 | MTH 142 Intern. Calculus w/ Analytic Geometry | 4
- PHY 203 Elementary Physics I Lecture | 3 | PHY 204 Elementary Physics II | 3
- PHY 203 Elementary Physics I Lab | 1 | PHY 207 Elementary Physics Lab | 1
- CHN 101 Beginning Chinese I | 3 | CHN 102 Beginning Chinese II | 3

**Semester Credits**: 16

### Year Two
- **Course** | **Cr** | **Course** | **Cr**
- CSC 211 Introductory Programming and Design | 4 | CSC 212 Data Structures and Abstractions | 4
- ELE 201 Digital Circuit Design | 3 | ELE 212 Linear Circuit Theory | 3
- ELE 202 Digital Circuit Design Lab | 3 | ELE 215 Linear Circuits Lab | 2
- MTH 362 Advanced Engineering Mathematics I | 3 | MTH 243 Calc for Functions of Several Variables | 3
- General Education Requirement | 3 | General Education Requirement | 3
- CHN 103 Beginning Chinese II | 3 | CHN 104 Intermediate Chinese I | 3

**Semester Credits**: 17

### Fall Semester Abroad
- CHN xxx for 6-8 credits

### Spring Semester Abroad
- International Internship Semester
- Suggested Semester Abroad

### Year Three
- **Course** | **Cr** | **Course** | **Cr**
- ELE 305 Intro to Computer Architecture | 3 | EGR 301 Electronic Design Automation | 3
- ELE 313 Linear Systems | 3 | EGR 302 Electronic Design Automation Lab | 1
- ELE 338 Electronics I | 3 | MTH 451 Intro to Probability and Statistics | 3
- ELE 339 Electronics I Lab | 1 | EGR 201 Microeconomics (S) | 3
- General Education Requirement | 3 | General Education Requirement | 3
- MTH/CSC 447 Discrete Mathematical Structures | 3 | CHN 206 Conversation & Composition II | 3
- CHN 205 Conversation & Composition I | 3

**Semester Credits**: 19

### Year Four
- **Course** | **Cr** | **Course** | **Cr**
- General Education Requirement | 3 | Internship in a Chinese-Speaking Country | 3-6
- General Education Requirement | 3 | CHN XXX | 3-6
- CHN 301 Chinese | 3 | CHN 301 Chinese | 3
- CHN 305 Chinese | 3 | CHN 305 Chinese | 3

**Semester Credits**: 12

### Year Five
- **Course** | **Cr** | **Course** | **Cr**
- ELE 400 Intro to Professional Practice | 1 | ELE 408 Computer Organization | 3
- ELE 405 Digital Computer Design | 3 | ELE 409 Computer Organization Lab | 3
- ELE 406 Digital Computer Design Lab | 1 | ELE 481 Capstone Design II | 2
- ELE 437 Computer Communications | 3 | EGR 437 Computer Engineering Elective* | 3
- ELE 480 Capstone Design Project I | 3 | EGR 481 Computer Engineering Design Elective** | 3-4
- Computer Engineering Elective* | 3-4 | CHN 4xx Chinese Literature I (A) | 3
- CHN 413 (Engineering Elective)** | 3 | CHN 413 (Engineering Elective)** | 3

**Semester Credits**: 17-18

### Notes:
- * Three Computer Engineering Electives chosen from: any ELE 300- or 400-level course not otherwise required by the major, any ELE 500-level course with prior approval; BME/ELE 461, BME 464/465, and CSC 301, 305, 402, 406, 412, 415, 436, 481, 485,486; EGR/CHN 413 with prior approval if available.
- ** EGR/CHN 413 fulfills one Engineering Technical Elective with prior approval, as well as one Chinese course. In the event this course is not offered, you must take both courses individually. (See your advisor for clarification.)
GEN ED TALLY  (See special notes about General Education Requirements and consult with the university catalog and your major advisors.)

- EC: ____________________________
- ECoW: ____________________________
- S: ____________________________
- S (use ECN 201): ____________________________
- A (400-level CHN 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). 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 of which is fulfilled by ECN 201, which is already required for CPE majors. Consider opting for a second course with a global or China/Asia focus, i.e. PSC 116 or 377.

Letters (L): 6 credits. Consider taking a Chinese/Asian History or Philosophy class, such as HIS 171, 374; PHL 331; or RLS 131, 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 Chinese 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 Chinese/Asian 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 COMPUTER ENGINEERING MAJOR  (See course catalog and dept. website for more detail.)

CHM 101, 102; CSC 211, 212; ECN 201; EGR 105, 106; ELE 201, 202, 208, 209, 212, 215, 301, 302, 305, 313, 338, 339, 400, 405, 408, 409, 437, 480, 481; MTH 141, 142, 243, 362, 451; MTH/CSC 447; PHY 203, 204, 273, 274; Three Computer Engineering Electives chosen from: any ELE 300- 400-level course not otherwise required by the major, any ELE 500-level course with prior approval; BME/ELE 461, BME 464/465, and CSC 301, 305, 402, 406, 412, 415, 436, 481, 485,486; EGR/CHN 413 with prior approval if available.

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

At least 30 credits in CHN, not including CHN 101 or 102. You must complete six credits in Chinese literature and civilization, at least three of which must be taken at the 400 level; and CHN/EGR 413, which must be taken prior to the internship experience; this course may satisfy an engineering elective for the CPE major. You must also complete six credits in Chinese/Asian history, Chinese/Asian politics, or Chinese/Asian philosophy offered through other departments in English; select from the following, which can be counted towards the General Education requirement: HIS 171, 374; PHL 331; RLS 131; PSC 116, 377; or from other courses on Chinese culture and civilization as approved by the program director.

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 Chinese advisor for all IEP students is Dr. Sigrid Berka (sberka@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 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 Chinese 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. Berka) to make sure that you are fulfilling all requirements for both majors and your general education requirements.

6/4/2014