COMPUTER ENGINEERING ELECTIVES

Computer Engineering Electives: Three required, select from the following:

- ECE 35400 Software Engineering Design I
- ECE 37500 Digital Integrated Circuits
- ECE 45100 Industrial Automation
- ECE 45400 Software Engineering Design II
- ECE 45900 Advanced Digital System Design
- ECE 46400 Computer Architecture & Organization
- ECE 46810 Operating Systems
- ECE 47600 Digital Signal Processing
- ECE 54400 Digital Communications
- ECE 54700 Introduction to Computer Communication Networks
- CS 33200 Algorithms
- CS 44200 Database Design

Other graduate-level courses allowed with prior approval of advisor.

ACCEPTABLE TECHNICAL ELECTIVES

Acceptable technical elective courses include:

1. Any Engineering (CE, ECE, ENGR, ME, or MSE) or Computer Science course 20000 or above that is required in another engineering curricula, or is an elective in any engineering curricula (and that has not been used to meet another requirement) except CE 20100.

2. Any Engineering (CE, ECE, ENGR, ME, or MSE) or Computer Science course 49500 and above with prior approval of advisor.

3. Any of the following courses:

- CHEM 11600 – General Chemistry II
- MA 31500 Intro. To Abstract Math.
- MA 34500 Coding and Information Theory
- MA 34800 Discrete Mathematics
- MA 47200 Introduction to Applied Math.*
- MGMT 31000 Financial Management
- MGMT 32400 Marketing Management
- MGMT 33300 Total Quality Management
- PHYS 31100 Quantum Physics I
- PHYS 32200 Intermediate Optics
- PHYS 34200 Modern Physics
- PHYS 34200 Modern Physics

Other courses, including BIOL, CHEM, MA, MGMT, PHYS, and STAT course 50000 and above may be used with approval of the Undergraduate Curriculum Committee. Approval requests must be sent by email to the chair of the Undergraduate Curriculum Committee, Edward S. Pierson, at pierson@purduecal.edu.

* Students who take MA 47200 can receive a Minor in Applied Mathematics

ACCEPTABLE HUMANITIES AND SOCIAL SCIENCES ELECTIVE COURSES

Required (9 credits):

PHIL 3xxx Engineering Ethics (3 credits) which meets the General Education requirement for Humanities

One course (3 credits) that meets the General Education requirement for Social Sciences

The balance (3 credits) is selected by the student and advisor to give the student an opportunity to explore areas within the humanities and social sciences. Credit for ECON 21000 is not allowed.

Subject areas not acceptable are skills courses such as writing and speaking, accounting, industrial management, personal finance, ROTC, and personnel administration. Credit is not allowed for a student’s native language.