Computer Engineering Program
Catalog 2015/2016 – 128 Hours

Requires a 3.0 average in Calculus I &II, Physics I & II with Labs, and Composition I & II

Science – 15 hours
MAC 2281 (4 hrs)
Engineering Calculus I

MAC 2282 (4 hrs)
Engineering Calculus II

PHY 2048/2048L
Physics I w/ Lab (4 hrs)

PHY 2049/2049L
Physics II w/ Lab (4 hrs)

CMP 2302 (3 hrs)
Diff Equations or EGN 3433 (3 hrs) Model and Analysis*

Mathematics – 17 hours

MAC 2281 (4 hrs)
Engineering Calculus I

MAC 2282 (4 hrs)
Engineering Calculus II

EGN 4450 (2 hrs)
Intro to Linear Systems

MAC 2283 (4 hrs)
Engineering Calculus III

CHM 2045 (4 hrs)
Gen. Chem w/ Lab

CHM 2045L (1 hr)
Foundations of Engineering

Note: COP 2510 with a minimum grade of B. CDA 3103 and COP 3514 with a minimum grade of B, based on best attempts in each course. These requirements must be met with a maximum of two attempts allowed for each course. See catalog.

English – 6 hours
ENC 1101 (3 hrs)
Composition I

ENC 1102 (3 hrs)
Composition II

Note: COP 2510 is probably best if seeking a Math minor – see the Department advisor

Engineering fundamentals and core courses
EGN 3615 (3 hrs) Engineering Economics with Social and Global Implications
EGN 3443 (3 hrs) Probability and Statistics for Engineers (MAC 2282 pre-req)
EGN 3373 (3 hrs) Electrical Systems (PHY 2049 and PHY 2049L pre-req, MAP 2302 co-req)
EEE 3394 (3 hrs) Electronic Materials (CHM 2045 and PHY 2049 pre-req)

FKL Social and Behavioral Sciences – 6 hrs
FKL Humanities – 6 hrs (one course with HHCP)
FKL Fine Arts – 3 hrs
FKL Human and Cultural Diversity in a GC – 3 hrs
Foreign Lang – 8 hrs (or 2 years high school)

General Education requirements
FKL Social and Behavioral Sciences – 6 hrs
FKL Humanities – 6 hrs (one course with HHCP)
FKL Fine Arts – 3 hrs
FKL Human and Cultural Diversity in a GC – 3 hrs
Foreign Lang – 8 hrs (or 2 years high school)

CIS 4203/4203L (4 hrs) Computer Architecture
CIS 4205 (3 hrs) Computer System Design w/ Lab

Exit requirements
CIS 4203/4203L (4 hrs) Computer Architecture
CIS 4205 (3 hrs) Computer System Design w/ Lab

Notes
1) Unless otherwise stated, the minimum acceptable grade in all BSCE required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the program admission and continuation requirements in the catalog. See catalog.

2) COP 4530 is the minimum prerequisite for most software electives. CDA 3201L is the minimum prerequisite for most hardware electives. COP 4530 and COT 3100 are the minimum prerequisites for theory electives. See the undergraduate catalog for the specific prerequisites for elective courses. See catalog.

Industry internship
An industry internship is recommended for the third summer. Credit can be earned as CIS 4940 Industry Internship. See the Department Advisor for more information.

Hardware Electives (6 hrs) (choose 2 from above list)

Departmental Electives
Hardware, Software, Theory (8 hrs)

Note: Department website lists elective courses by category. Should also consult with Department advisor.

* Taking MAP 2302 is probably best if seeking a Math minor – see the Department advisor