Computer Engineering Program
Catalog 2012/2013 – 128 Hours

NOTE: This flow chart is provided as a guide; the catalog is the only definitive source of requirements.

Mathematics – 17 hours
MAC 2281 (4 hrs) Engineering Calculus I
MAC 2282 (4 hrs) Engineering Calculus II
EGN 4450 (2 hrs) Linear Systems
MAC 2283 (4 hrs) Engineering Calculus III
MAP 2302 (3 hrs) Diff Equations or EGN 3433 (3 hrs) Model and Analysis*

Science – 15 hours
FKL Natural Sciences Elective (3 hrs)
CHM 2045L (4 hrs) Gen. Chem w/Lab
PHY 2048/2048L Physics I w/Lab (4 hrs)
PHY 2049/2049L Physics II w/Calc/Lab (4 hrs)

Engineering fundamentals and core courses
EGN 3615 – Engineering Economy
EGN 3443 – Engineering Statistics (MAC 2282 pre-req)
EGN 3373 – Electrical Systems (MAP 2302 co-req)
EEE 3384 – Electronic Materials (PHY 2049 pre-req)

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

Possible hardware electives (3 credit hours each)
CDA 4253 – FPGA Design and Analysis
CDA 4621 – Control of Mobile Robots
CIS 4930 – Advanced VLSI System Design
CIS 4930 – VLSI Design Automation
CIS 4930 – Testing/Fault Tolerance Digital Sys
CIS 4930 – Introduction to Embedded Systems
CIS 4930 – Digital Circuit Synthesis

Exit requirements
CIS 4250 Ethical Issues and Professional Conduct (3 hrs – FKL capstone) - Senior Standing in Department
ENC 3246 Communications for Engineers (3 hrs)

Note
Data Structures is prerequisite for all software electives. Logic Design is prerequisite for all hardware courses. Discrete Structures and Data Structures are prerequisite for all theory courses. See catalog for specific prerequisites for elective courses.

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