Computer Engineering Program
Catalog 2010/2011 – 128 Hours

NOTE: This flow chart is only 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
- MAC 2283 (4 hrs) Engineering Calculus III
- EGN 4450 (2 hrs) Linear Systems
- MAP 2302 (3 hrs) Diff. Equations or EGN 3433 (3 hrs) Model and Analysis*

**Science – 15 hours**
- CHM 2045 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)

**English – 6 Hours**
- ENC 1101 (3 hrs) Composition I
- ENC 1102 (3 hrs) Composition II

**Engineering fundamentals and core courses**
- EGN 3415 – Engineering Economy
- EGN 3443 – Engineering Statistics (Calc II pre-req)
- EGN 3373 – Electrical Systems (MAP 2302 co-req)
- EEE 3394 – Electronic Materials (Physics II pre-req)

**General Education requirements**
- FKL Social and Behavioral Sciences – 3 hrs
- FKL Humanities – 6 hrs
- FKL Fine Arts – 3 hrs
- 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
- CIS 4930 – VLSI Testing
- CIS 4930 – Digital Circuit Synthesis
- CIS 4930 – Design Automation
- CIS 4930 – Embedded Systems
  - See undergraduate advisor for all possible elective offerings.

**Exit requirements**
- CIS 4250 Computer Ethics (3 hrs – FKL capstone) - Senior Standing in Department
- ENC 3246 Communications for Engineers (3 hrs)
- Hardware Electives (6 hrs) (choose 2 from above list)
- Departmental Electives Hardware, Software, Theory (6 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 UG advisor.