Computer Science Program
Catalog 2010/2011 – 120 Hours

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

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

Mathematics – 17 hours

MAC 2281 (4 hrs) Engineering Calculus I

MAC 2282 (4 hrs) Engineering Calculus II

EGN 4450 (2 hrs) Linear Systems

EGN 3443 (3 hrs) Engineering Statistics

Science – 14 hours

FKL Natural Sciences Electives (6 hrs)

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

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

COP 2510 (3 hrs) Programming Concepts

EGN 3000 (1 hr) Foundations of Engineering

COP 3514 (3 hrs) Program Design

COT 3100 (3 hrs) Discrete Structures

CDA 3103 (3 hrs) Computer Organization

COP 3311 (3 hrs) Object Oriented Design

COT 4400 (3 hrs) Algorithms (Theory course)

CDA 3201/3201L (4 hrs) Computer Logic Design & Lab

COP 4530 (3 hrs) Data Structures

CDA 4205 (3 hrs) Computer Architecture

COP 4600 (3 hrs) Operating Systems

CDA 4301/4301L (4 hrs) Computer Organization & Lab

Exit requirements
CIS 4250 Computer Ethics (3 hrs – FKL capstone) - Senior Standing in Department
ENC 3246 Communications for Engineers (3 hrs)

Upper Level elective
Upper-Level Humanities, Social Sciences, or Fine Arts elective (3 hrs)

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

English – 6 Hours

ENC 1101 (3 hrs) Composition I

ENC 1102 (3 hrs) Composition II

Enc 1101 (3 hrs) Composition I

CIS 4250 Computer Ethics (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 theory and elective courses.

Software Electives (6 hrs)

Departmental Electives
Hardware, Software, Theory (15 hrs)

Theory Elective (3 hrs)