Computer Science Program
Catalog 2012/2013 – 120 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
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)

EGN 3000 (1 hr) Foundations of Engineering

EGN 3010 (3 hrs) Computer Organization
COP 3514 (3 hrs) Programming Concepts
COP 3331 (3 hrs) Object Oriented Design
CDA 3013 (3 hrs) Computer Logic Design & Lab
COP 4530 (3 hrs) Data Structures
CDA 4205 (3 hrs) Computer Architecture
COP 4600 (3 hrs) Operating Systems
COT 4400 (3 hrs) Algorithms (Theory course)

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)

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

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: 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.

CDA 3103 (3 hrs) Computer Organization
COP 3514 (3 hrs) Program Design
COT 3100 (3 hrs) Discrete Structures

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

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.

Departmental Electives
Hardware, Software, Theory (15 hrs)

Software Electives (6 hrs)

Theory Elective (3 hrs)

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

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