Computer Science Program
Catalog 2009/2010 – 120 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

EGN 4450 (2 hrs)
Linear Systems

MAC 2283 (4 hrs)
Engineering Calculus III

EGN 3443 (3 hrs)
Engineering Statistics

Science – 14 hours
Science Elective (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

COP 3514 (3 hrs)
Program Design

COT 3100 (3 hrs)
Discrete Structures

COT 4400 (3 hrs)
Algorithms (Theory course)

COP 4530 (3 hrs)
Data Structures

COP 4600 (3 hrs)
Operating Systems

Departmental Electives Hardware, Software, Theory (15 hrs)

Software Electives (6 hrs)

Theory Elective (3 hrs)

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

Upper Level elective
Non math, science or engineering (3 hrs)

Exit requirements
CIS 4250 Computer Ethics (3 hrs) - Senior Standing in Dept.
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.

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

COT 4400 (3 hrs)
Algorithms (Theory course)

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