Computer Science Program
Catalog 2008/2009 – 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

MAC 2283 (4 hrs)
Engineering Calculus III

EGN 3443 (3 hrs)
Engineering Statistics

Science – 14 hours

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

Science Elective (6 hrs)

CDA 3103 (3 hrs)
Computer Organization

CDA 3201/3201L
Computer Logic Design & Lab

CDA 4205 (3 hrs)
Computer Architecture

COP 3331 (3 hrs)
Object Oriented Design

COP 4600 (3 hrs)
Operating Systems

COT 3100 (3 hrs)
Discrete Structures

CDA 3201/3201L
Computer Logic Design & Lab

COP 3331 (3 hrs)
Object Oriented Design

COT 3100 (3 hrs)
Discrete Structures

Electives (6 hrs)

Departmental Electives
Hardware, Software, Theory (15 hrs)

Software Electives (6 hrs)

Theory Courses
COT 4400 (3 hrs) Algorithms

Elective (3 hrs)

General Education Requirements
Social Sciences – 6 hrs
Historical Perspectives – 6 hrs
Fine Arts – 3 hrs
ALAMEA – 3 hrs
Foreign Language – 8 hrs (or 2 years HS)

Upper Division 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.

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