Computer Science Program
Catalog 2015/2016 – 120 Hours

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)
Intro to Linear Systems

MAC 2283 (4 hrs)
Engineering Calculus III

EGN 3443 (3 hrs)
Prob and Statistics for Engineers

Science – 14 hours
FKL Natural Sciences Electives (6 hrs)

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

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

EGN 3000/3000L (1 hr)
Foundations of Engineering

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.

FKL Social and Behavioral Sciences – 6 hrs
FKL Humanities – 6 hrs (one course with HHCP)
FKL Fine Arts – 3 hrs
FKL Human and Cultural Diversity in a GC – 3 hrs
Foreign Lang – 8 hrs (or 2 years high school)

General Education requirements

FKL Humanities – 6 hrs
FKL Social and Behavioral Sciences – 6 hrs
FKL Fine Arts – 3 hrs
FKL Human and Cultural Diversity in a GC – 3 hrs
Foreign Lang – 8 hrs

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

Scientific and Technology Electives

CDA 3003 (3 hrs)
Computer Organization

COP 3514 (3 hrs)
Program Design

COT 3100 (3 hrs)
Discrete Structures

COP 3201/3201L (4 hrs)
Computer Logic Design w/ 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)

Departmental Electives
Hardware, Software, Theory (15 hrs)

Software Electives (6 hrs)

Theory Elective (3 hrs)

Exit requirements
CIS 4250 (3 hrs – FKL capstone) Ethical Issues and Professional Conduct (Senior Standing in Department pre-req)
ENC 3246 (3 hrs) Communications for Engineers

Industry internship
An industry internship is recommended for the third summer. Credit can be earned as CIS 4940 Industry Internship. See the Department Advisor for more information.

Notes
1) Unless otherwise stated, the minimum acceptable grade in all BSCS required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the program admission and continuation requirements in the catalog. See catalog.
2) COP 4530 is the minimum prerequisite for most software electives. CDA 3201/L is the minimum prerequisite for most hardware electives. COP 4530 and COT 3100 are the minimum prerequisites for theory electives. See the undergraduate catalog for the specific prerequisites for elective courses. See catalog.

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

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