Computer Science Program
Catalog 2018/2019 – 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)
Intro to Linear Systems

MAC 2283 (4 hrs)
Engineering Calculus III

EGN 3443 (3 hrs)
Prob and Statistics for Engineers

Science – 14 hours
Natural Science Electives
(6 hrs)

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

EGN 3000/3000L
(3 hrs)
Foundations of Engineering

COP 2510 (3 hrs)
Programming Concepts

EGN 3000/3000L
(3 hrs)
Foundations of Engineering

COP 3514 (3 hrs)
Object Oriented Software Design

COP 4530 (3 hrs)
Data Structures

CIS 4250 (3 hrs)
Ethical Issues and Prof Conduct

CEN 4020 (3 hrs)
Software Engineering

COT 4400 (3 hrs)
Algorithms (Theory course)

CDA 3103 (3 hrs)
Computer Organization

COP 3514 (3 hrs)
Program Design

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

COT 3100 (3 hrs)
Discrete Structures

Additional requirements
Gen Ed Social Science (3 hrs)
Gen Ed Humanities (3 hrs)
Gen Ed Human and Cultural Diversity in GC (3 hrs)
ENC 3246 Communication for Engineers (3 hrs)
Foreign Lang (8 hrs or 2 years high school)

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 the undergraduate catalog.
2) A student may substitute a second "Physical Science" course for the required "Life Science" course. See the undergraduate catalog.
3) COP 4530 is the minimum prerequisite for most software electives, some software electives have COP 3331 as the prerequisite. CDA 3201 with lab is the minimum prerequisite for most hardware electives. COP 4530 and COT 3100 are the minimum prerequisites for theory electives. See the undergraduate catalog.
4) See Department advisor for coverage for 1 hour elective.

General Electives (6 hrs)

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

ENC 1102 (3 hrs)
Composition II

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Requires a 3.1 average in Calculus I &II, Physics I & II with Labs, and Composition I & II

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General Electives (6 hrs)

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