Computer Engineering Program
Catalog 2018/2019 – 128 Hours

Requires a 3.1 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
- MAP 2302 (3 hrs) Diff Equations or EGN 3433 (3 hrs) Model and Analysis*

Science – 15 hours
- Natural Science Elective (3 hrs)
- CHM 2045 (4 hrs) Gen. Chem w/ Lab
- PHY 2048/2048L Physics I w/ Lab (4 hrs)
- PHY 2049/2049L Physics II w/ Lab (4 hrs)

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

Science – 15 hours
- PHY 2048/2048L Physics I w/ Lab (4 hrs)
- PHY 2049/2049L Physics II w/ Lab (4 hrs)
- COP 2510 (3 hrs) Programming Concepts
- CDA 3103 (3 hrs) Computer Organization
- COP 3514 (3 hrs) Program Design
- COT 3100 (3 hrs) Discrete Structures

CDA 3201/3201L (4 hrs) Computer Logic Design w/ Lab
- CDA 3205 (3 hrs) Computer Architecture
- CDA 4203/4203L (4 hrs) Computer System Design w/ Lab
- CDA 4213/4213L (4 hrs) CMOS VLSI Design w/ Lab
- COP 4600 (3 hrs) Operating Systems
- CIS 4910 (2 hrs) Comp Science Senior Project

Additional requirements
- EGN 3615 (3 hrs) Engineering Economics with Social and Global Implications
- EGN 3443 (3 hrs) Probability and Statistics for Engineers (MAC 2282 pre-req)
- EGN 3373 (3 hrs) Electrical Systems (PHY 2049 and PHY 2049L pre-req, MAP 2302 co-req)
- EEE 3394 (3 hrs) Electronic Materials (CHM 2045 and PHY 2049 pre-req)
- Gen Ed Social Science (3 hrs)
- Gen Ed Humanities (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 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) 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.
3) Department website lists elective courses by category. Should also consult with Department advisor.
4) See Department advisor for coverage for 1 hour elective.
5) Taking MAP 2302 may be best if seeking a Math minor. Should consult with Department advisor.

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5) Taking MAP 2302 may be best if seeking a Math minor. Should consult with Department advisor.

Version 1.00 (Christensen – July 4, 2018)