Computer Engineering Program
Catalog 2019/2020 – 128 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
MAP 2302 (3 hrs) Diff Equations or EGN 3433 (3 hrs) Model and Analysis

Science – 15 hours
CHM 2045
CHM 2045L (4 hrs) Gen. Chem w/ Lab
Natural Science Elective (3 hrs)

Physics – 15 hours
PHY 2048/2048L (4 hrs) Physics I w/ Lab

Electives (3 hrs)

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

Engineering fundamentals and core courses
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)
EGN 3000/3000L (3 hrs) Foundations of Engineering

Additional requirements
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 COP 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) Taking MAP 2302 may be best if seeking a Math minor. Should also consult with Department advisor.

Gener Electives (9 hrs)

Departmental Electives
Hardware, Software, Theory (6 hrs)

Hardware Electives (6 hrs)