Computer Science Program
Catalog 2014/2015 – 120 Hours

Required courses:
- 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 4450 (2 hrs) Linear Systems
  - 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/Calc/Lab (4 hrs)
- Computer Science Program
  - COP 2510 (3 hrs) Programming Concepts
  - COP 3514 (3 hrs) Program Design
  - COP 3331 (3 hrs) Object Oriented Software Design
  - COP 4530 (3 hrs) Data Structures
  - CDA 3103 (3 hrs) Computer Organization
  - CDA 3201/3201L (4 hrs) Computer Logic Design & Lab
  - CDA 4205 (3 hrs) Computer Architecture
  - COP 4600 (3 hrs) Operating Systems
  - COT 3100 (3 hrs) Discrete Structures
  - COT 4400 (3 hrs) Algorithms (Theory course)
  - Departmental Electives
    - Hardware, Software, Theory (15 hrs)
  - Software Electives (6 hrs)
  - Theory Elective (3 hrs)

General Education requirements
- FKL Social and Behavioral Sciences – 6 hrs
- FKL Humanities – 6 hrs
- FKL Fine Arts – 3 hrs
- FKL Human Cultural Diversity and GC – 3 hrs
- Foreign Lang – 8 hrs (or 2 years high school)

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

Exit requirements
- CIS 4250 Ethical Issues and Professional Conduct (3 hrs – FKL capstone) - Senior Standing in Department
- 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.

English – 6 hours
- EGN 3000/3000L (1 hr) Foundations of Engineering
- ENC 1101 (3 hrs) Composition I
- ENC 1102 (3 hrs) Composition II

Note: This flow chart is provided as a guide; the catalog is the only definitive source of requirements.

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