## 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. Requires a 3.1 average in Calculus I &II, Physics I & II with Labs, and Composition I & II English - 6 Hours EGN 3000/3000L ENC 1101 (3 hrs) ENC 1102 (3 hrs) Mathematics - 17 hours Science - 14 hours (3 hrs) Composition I Composition II Foundations of MAC 2281 (4 hrs) Natural Science Engineering Engineering Calculus I Electives (6 hrs) Note: COP 2510, CDA 3103, and PHY 2048/2048L COP 2510 (3 hrs) MAC 2282 (4 hrs) COP 3514 with a minimum grade of B Engineering Calculus II Physics I w/ Lab Programming based on best attempts in each (4 hrs) Concepts course. These requirements must be met with a maximum of two attempts allowed for each course. See the undergraduate catalog. EGN 4450 (2 hrs) PHY 2049/2049L MAC 2283 (4 hrs) Intro to Linear Engineering Physics II w/ Lab Calculus III (4 hrs) Systems CDA 3103 (3 hrs) COP 3514 (3 hrs) EGN 3443 (3 hrs) Computer Program Design Prob and Statistics Organization for Engineers COT 3100 (3 hrs) Additional requirements COP 3331 (3 hrs) Co-prereq Gen Ed Social Science (3 hrs) Discrete **Object Oriented** Gen Ed Humanities (3 hrs) Software Design Structures 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) CDA 3201/3201L COP 4530 (3 hrs) (4 hrs) **Data Structures** Industry internship Computer Logic An industry internship is recommended for the third summer. Design w/ Lab Credit can be earned as CIS 4940 Industry Internship. See the Department Advisor for more information. CDA 4205 (3 hrs) COP 4600 (3 hrs) CEN 4020 (3 hrs) COT 4400 (3 hrs) **Notes** Computer Operating Software Algorithms 1) Unless otherwise stated, the minimum acceptable grade in Systems Architecture Engineering (Theory course) 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 CIS 4250 (3 hrs) CNT 4419 (3 hrs) the program admission and continuation requirements in the **Ethical Issues** Secure Coding catalog. See the undergraduate catalog. and Prof Conduct 2) A student may substitute a second "Physical Science" (proposed num) course for the required "Life Science" course. See the undergraduate catalog. 3) COP 4530 is the minimum prerequisite for most software Departmental (CSE) Electives Software Electives (6 hrs) electives, some software electives have COP 3331 as the Hardware, Software, Theory (13 hrs) 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. Theory Elective (3 hrs) General Electives (6 hrs)