Information Technology Program
Catalog 2021/2022 – 120 Hours

NOTE: This flowchart is provided as a guide; the catalog is the only definitive source of requirements.

Mathematics – 10 hours
- STA 2023 (3 hrs) Intro to Statistics
- MAC 1147 (4 hrs) PreCalc Alg/Trig
- MAD 2104 (3 hrs) Discrete Math

Science – 6 hours
- PHY 2020 (3 hrs) Conceptual Physics
- COP 2512 (3 hrs) Programming Fund for IT
- COP 2513 (3 hrs) Obj Oriented Program for IT
- COP 3515 (3 hrs) Adv Program Design for IT

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

Natural Science Elective (3 hrs)
- CGS 1540 (3 hrs) Intro to Databases
- COP 4703 (3 hrs) Adv Database Systems for IT
- CIS 4083 (3 hrs) Cloud Computing for IT

Breadth courses – 9 hours
- PSY 2012 (3 hrs) Intro to Psychological Sci
- ECO 2013 (3 hrs) Econ Principles Macroeconomics
- INR 3033 (3 hrs) International Political Cultures

EGN 3000/3000L (3 hrs) Foundations of Engineering
- COP 4538 (3 hrs) Data Struc and Algorithms for IT
- CEN 3722 (3 hrs) Human Comp Interfaces for IT
- CIS 4253 (3 hrs) IT Ethics (Senior standing)

CGS 1540 (3 hrs) Intro to Databases
- COP 4703 (3 hrs) Adv Database Systems for IT
- CIS 3433 (3 hrs) Sys Integration and Arch for IT

EGN 3000/3000L (3 hrs) Foundations of Engineering
- COP 4538 (3 hrs) Data Struc and Algorithms for IT
- CEN 3722 (3 hrs) Human Comp Interfaces for IT
- CIS 4253 (3 hrs) IT Ethics (Senior standing)

CGS 3303 (3 hrs) IT Concepts
- CIS 4253 (3 hrs) IT Ethics (Senior standing)

Additional requirements
- Gen Ed Humanities (3 hrs)
- Gen Ed Human and Cultural Diversity in GC (3 hrs)
- Gen Ed Information and Data Literacy (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 4947 Industry Internship for IT (3 hrs – Approved IT Departmental elective). See Department Advisor for information.

Industry certification
Students are prepared to earn CompTIA Network+ and Security+ certifications with some additional study needed.

Notes
1) MAC 1147 may require MAC 1105 College Algebra as a prereq. Consult with the Department Advisor.
2) Allowed substitutions for INR 3033 include EGS 3720 Globalization and Technology and EGN 3615 Engineering Economics with Global and Social Implications. See department advisor for other possible substitutions.
3) Approved IT Electives have varying prereqs – see the Department website for more information.
4) The maximum number of credit hours for COP 4900 and COP 4947 in any combination is 9 credit hours. No more than 3 hours of CIS 4947 in a single company.

Approved IT Electives (15 hrs)

General Electives (9 hrs)

Requires a 3.2 grade average in MAD 2104, STA 2023, PHY 2020, and MAC 1147 for continuation. All grades “C” or better (“C-” is not acceptable). No more than two courses in upper-level pre-continuation.

Note:
CGS 1540 with a minimum grade of B based on best attempts. This requirement must be met with a maximum of two attempts allowed.

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