Information Technology Program
Catalog 2020/2021 – 120 Hours

NOTE: This flow chart 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 Conceptual Physics (3 hrs)
- COP 2512 (3 hrs) Programming Fund for IT
- COP 3515 (3 hrs) Adv Program Design for IT

Natural Science Elective (3 hrs)
- EGN 3000/3000L (3 hrs) Foundations of Engineering
- CGS 1540 (3 hrs) Intro to Databases
- CGS 1540 with a minimum grade of B based on best attempts. This requirements must be met with a maximum of two attempts allowed.

Breadth courses – 9 hours
- PSY 2012 (3 hrs) Intro to Psych Sci (FKL Soc/Beh)
- ECO 2013 (3 hrs) Macroeconomics (FKL Soc/Beh)
- INR 3033 (3 hrs) International Political Cultures

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 will be prepared to immediately earn CompTIA Network+ certifications.

IT Departmental Electives (18 hrs)
- CNT 4104/4104L (4 hrs) Comp Info Networks for IT w/ lab
- COP 4538 (3 hrs) Data Struct and Algorithms for IT
- COP 4703 (3 hrs) Adv Database Systems for IT
- CEN 3722 (3 hrs) Human Comp Interfaces for IT
- CGS 3853 (3 hrs) Web Systems for IT
- CIS 4083 (3 hrs) Cloud Computing for IT
- CIS 4253 (3 hrs) IT Ethics (Senior standing)
- CIS 4935 (4 hrs) IT Senior Project (Senior standing)

General Electives (6 hrs)

Notes
1) MAC 1147 may require MAC 1105 College Algebra as a pre-req. 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.
3) IT Departmental Electives have varying pre-reqs – 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.

Requires a 3.00 GPA in MAD 2104, STA 2023, PHY 2020, and MAC 1147 for continuation. All grades “C” or better (“C-” is not acceptable). No more then two courses in the Department pre-continuation.