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)
- Natural Science Elective (3 hrs)

EGN 3000/3000L (3 hrs) Foundations of Engineering
- COP 2512 (3 hrs) Programming Fund for IT
- CGS 1540 (3 hrs) Intro to Databases

COP 2513 (3 hrs) Obj Oriented Program for IT
- CIS 3213 (3 hrs) Foundations of Cyber Security
- CIS 3433 (3 hrs) Sys Architecture and Integration for IT

COP 2515 (3 hrs) Adv Program Design for IT
- CNT 4104/4104L (4 hrs) Comp Info Networks for IT w/ lab
- CNT 4603 (3 hrs) Sys Admin and Maintenance for IT

COP 4538 (3 hrs) Data Struct and Algorithms for IT
- COP 4703 (3 hrs) Adv Database Systems for IT
- CGS 3853 (3 hrs) Web Systems for IT

CEN 3722 (3 hrs) Human Comp Interfaces for IT
- CIS 4083 (3 hrs) Cloud Computing for IT

CNT 4104/4104L (4 hrs) Comp Info Networks for IT w/ lab
- CNT 4603 (3 hrs) Sys Admin and Maintenance for IT

CIS 3213 (3 hrs) Foundations of Cyber Security
- CIS 3433 (3 hrs) Sys Architecture and Integration for IT

CIS 4083 (3 hrs) Cloud Computing for IT

General Electives (6 hrs)

IT Departmental Electives (18 hrs)

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

Science – 6 hours
- EGN 3000/3000L (3 hrs) Foundations of Engineering
- COP 2512 (3 hrs) Programming Fund for IT
- CGS 1540 (3 hrs) Intro to Databases

COP 2513 (3 hrs) Obj Oriented Program for IT
- CIS 3213 (3 hrs) Foundations of Cyber Security
- CIS 3433 (3 hrs) Sys Architecture and Integration for IT

COP 2515 (3 hrs) Adv Program Design for IT
- CNT 4104/4104L (4 hrs) Comp Info Networks for IT w/ lab
- CNT 4603 (3 hrs) Sys Admin and Maintenance for IT

CIS 4935 (4 hrs) IT Senior Project (Senior standing)

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.

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)

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.

Version 1.00 (Christensen – May 14, 2020)