Information Technology Program
Catalog 2023-24 – 120 Hours

See the USF 2023-24 undergraduate catalog for information on progression into the upper level. Progression into the upper level is required in order to take upper level courses.

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

English – 6 Hours

- ENC 1101 (3 hrs) Composition I → ENC 1102 (3 hrs) Composition II

EGN 3000/3000L (3 hrs) Foundations of Engineering

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
- Natural Science Elective (3 hrs)

COP 2512 (3 hrs) Programming Fund for IT

CGS 1540 (3 hrs) Intro to Databases

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.

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

COP 2513 (3 hrs) Obj Oriented Program for IT

CIS 3213 (3 hrs) Foundations of Cyber Security

CGS 3303 (3 hrs) IT Concepts

COP 3515 (3 hrs) Adv Program Design for IT

CIS 3433 (3 hrs) Sys Integration and Arch 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 Struc 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

LIS 4414 Info Policy and Ethics or CIS 4253 IT Ethics (3 hrs)

CIS 4935 (4 hrs) IT Senior Project (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.

Approved IT Electives (15 hrs)

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General Electives (9 hrs)

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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 CIS 4947 in any combination is 9 credit hours. No more than 3 hours of CIS 4947 in a single company.
5) Students may be required to complete both an approved civic literacy course and a passing score on a designated civic literacy assessment before graduation from the USF. Consult the catalog.

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