

Information Technology Program Catalog 2024-25 – 120 Hours

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

See the USF 2024-25 undergraduate catalog for information on progression into the upper level. Progression into the upper level is required in order to take upper level courses.

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)

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

English – 6 Hours

ENC 1101 (3 hrs)
Composition I

ENC 1102 (3 hrs)
Composition II

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

LDR 2010 (3 hrs)
Leadership
Fundamentals

COP 2513 (3 hrs)
Obj Oriented
Program for IT

CIS 3213 (3 hrs)
Foundations of
Cyber Security

CIS 3433 (3 hrs)
Sys Integration
and Arch for IT

COP 3515 (3 hrs)
Adv Program
Design for IT

Additional requirements
Gen Ed Humanities (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) 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 current USF undergraduate catalog.

CNT 4104/4104L
(4 hrs)
Comp Info
Networks for IT
w/ lab

COP 4538 (3 hrs)
Data Struc and
Algorithms for IT

CGS 3853 (3 hrs)
Web Systems for
IT

CIS 4083 (3 hrs)
Cloud Computing
for IT

CNT 4603 (3 hrs)
Sys Admin and
Maintenance for
IT

COP 4703 (3 hrs)
Adv Database
Systems for IT

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

**Approved IT Electives
(18 hrs)**

**General Electives
(19 hrs)**
