

Information Technology B.S.I.T.

120 credits, 2024/2025 Catalog

First Year

Fall Semester	Spring Semester
3 * CGS 1540 Intro to Databases	3 COP 2512 Programming Fundamentals
4 MAC 1147 Pre-Calculus	3 MAD 2104 IT Discrete Math
R EGN 3000 Foundations of Engineering	3 PHY 2020 Conceptual Physics
3 ENC 1101 Composition I	3 ENC 1102 Composition II
<u>3</u> EGN 3000L Foundations of Eng Lab (TGEC)	<u>3</u> St. Gen. Ed. Core Humanities
13 <i>Total Credits</i>	15 <i>Total Credits</i>

Second Year

Fall Semester	Spring Semester	Summer
3 COP 2513 Object-Oriented Programming	3 COP 3515 Adv. Program Design	3 * General Elective
3 CIS 3213 Found. Of Cyber Security	3 CIS 3433 System Integration & Arch.	3 * General Elective
3 ECO 2013 Macroeconomics (Required St. Gen. Ed. Core Social Science)	3 PSY 2012 Psychological Science I (Req'd St. Gen. Ed. Core Social Science)	<u>3</u> Gen. Ed. Information & Data Literacy
3 STA 2023 Introductory Statistics I	<u>3</u> LDR 2010 Leadership Fundamentals	
! Apply for Progression to Upper Division		
12 <i>Total Credits</i>	12 <i>Total Credits</i>	9 <i>Total Credits</i>

Third Year

Fall Semester	Spring Semester	Summer
3 COP 4538 Data Structures and Algorithms	3 CNT 4104 Computer Information Networks	Recommended
3 CGS 3853 Web Systems for IT	1 CNT 4104L Computer Info Networks Lab	Internship/Co-op
3 ENC 3246 Communication for Eng.	3 Approved IT Elective	Company/employer
3 General Ed. Natural Science Elective	3 Approved IT Elective	name and position
<u>3</u> * General Elective	3 Approved IT Elective	(see advisor for credit
	<u>3</u> * General Elective	options – CIS 4947)
15 <i>Total Credits</i>	16 <i>Total Credits</i>	

Fourth Year

Fall Semester	Spring Semester
3 CIS 4083 Cloud Computing for IT	3 COP 4703 Database Systems for IT (TGEH)
3 CNT 4603 System Admin & Maintenance for IT	3 LIS 4414 Information Policy & Ethics (TGEE)
3 Approved IT Elective	3 Approved IT Elective
3 Approved IT Elective	<u>4</u> * General Elective
3 * General Elective	
! Apply for Graduation	
15 <i>Total Credits</i>	13 <i>Total Credits</i>

Note: Courses in bold must be completed with minimum grade of C, not C-. See overleaf for admission requirements.

R - Required course

* - Requires a minimum grade of a "B", B- is insufficient.

* Students must meet the Civic Literacy requirement with credit for AMH 2010 (fall 2024 or later), AMH 2020, or POS 2041 and passing the Florida Civics Literacy Exam.

TGEC = Gen Ed Creative Thinking, TGEE = Gen Ed Ethical Reasoning & Civic Engagement, TGEH = Gen Ed High Impact Practice Capstone

Information Technology for Progression to the Upper Division

- Completion of the following courses with a minimum grade of C and a cumulative **3.5 grade average*** (based on best attempt) for the following courses:

____ **MAD 2104 Discrete Mathematics**
____ **STA 2023 Introductory Statistics**
____ **PHY 2020 Conceptual Physics**
____ **MAC 1147 Pre-Calculus with Algebra and Trigonometry**

* Minimum grade average for progression to the upper division for fall 2024 is 3.50. This GPA is subject to change in future years; check the department website.

- **Completion of CGS 1540 Intro to Databases for IT with a grade of B or higher (best attempt), B- is insufficient**
- Need a USF GPA and an Overall GPA of 2.0 or better

Continuation and Graduation Requirements

Reference Catalog: https://catalog.usf.edu/preview_program.php?catoid=21&poid=10334

- Unless otherwise stated, the minimum acceptable grade in all Information Technology major required math, science, and engineering courses is a C or higher (C- is insufficient).
- The minimum acceptable grade in state mandated common prerequisite courses is a C or higher (C- is insufficient). Course list: MAC 1147, MAD 2104, COP 2512, PHY 2020, COP 2513, ECO 2013, STA 2023, and PSY 2012.
- The minimum acceptable grade in specialization courses is a C-, except as stated in the progression to the upper division and continuation requirements.
- Students must have and maintain a minimum 2.0 Semester GPA, 2.0 Math and Science GPA, 2.0 Engineering GPA, 2.0 Specialization GPA, 2.0 USF GPA, and 2.0 Overall GPA.
- All required math, science, engineering, and specialization courses must be successfully completed in no more than **two** registered attempts. Grades of W, IF, U, and R are considered attempts.

Course Equivalencies

Courses at USF	Courses at a Florida State Institution
STA 2023 Intro Statistics	STA X023 or STA X122
MAC 1147 Pre-Calculus Algebra and Trig	MAX X147 or (MAC X140 and MAC X114)
PHY 2020 Conceptual Physics	PHY 1000-2999 Any 3 credit Physics course
CGS 1540 Intro to Databases	CGS X540, X540C, X545 or COP X710 (min 3 credits)
COP 2512 Programming Fundamentals	COP X512, X210, X270, X006, X272C, X500, X220, X360, X800 (Intro to Prog with C, C++, Java, or equivalent)
COP 2513 Object-Oriented Programming	COP X513, X551C, X224, X250