Information Technology B.S.I.T.

120 credits, 2022/2023 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
3	EGN 3000L Foundations of Eng Lab (TGEC)	3	St. Gen. Ed. Core Humanities
13	*Total Credits*	15	*Total Credits*

Second Year

Fall Semester		Spring Semester		Summer	
3	COP 2513 Object-Oriented Programming	3	CIS 3213 Found. Of Cyber Security	3	* General Elective
3	CGS 3303 IT Concepts	3	COP 3515 Adv. Program Design	3	Gen. Ed. Human &
3	ECO 2013 Macroeconomics	3	PSY 2012 Psychological Science I		Cultural Diversity
	(Required St. Gen. Ed. Core Social Science)		*(Req'd St. Gen. Ed. Core Social Science)*	3	Gen. Ed. Information
3	STA 2023 Introductory Statistics I	3	INR 3033 International Political Cultures		& Data Literacy
!	Apply for Progression to Upper Division				
12	*Total Credits*	12	*Total Credits*	9	*Total Credits*

Third Year

Fall Semester		Spring Semester		Summer	
3	COP 4538 Data Structures and Algorithms	3	CGS 3853 Web Systems		Recommended
3	CEN 3722 Human Computer Interfaces	3	ENC 3246 Communication for Eng.		**Internship/Co-op**
3	CIS 3433 System Integration & Arch.	3	CNT 4104 Computer Information Networks		Company/employer
3	General Ed. Natural Science Elective	1	CNT 4104L Computer Info Networks Lab		name and position
3	* General Elective	3	Approved IT Elective		(see advisor for credit
		3	* General Elective		options – CIS 4947)
15	*Total Credits*	16	*Total Credits*		

Fourth Year

Fall Semester		Spring Semester	
3	COP 4703 Database Systems for IT	4	CIS 4935 Senior Project in IT (TGEH)
3	CIS 4083 Cloud Computing for IT	3	CIS 4253 Ethics for Information Technology
3	CNT 4603 System Admin & Maintenance for IT		(TGEE)
3	Approved IT Elective	3	Approved IT Elective
3	Approved IT Elective	3	Approved IT Elective
!	Apply for Graduation		
15	*Total Credits*	13	*Total Credits*

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 2020, POS 2041 **and** passing the Civic Literacy test.

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 **3.3 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 2022 is 3.30. This GPA is subject to change in future years; check the department website.

- **Completion of CGS 1540 Intro to Databases for IT with a <u>grade of B</u> 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=17&poid=7242

- 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