

Information Technology B.S.I.T.

120 credits, 2021/2022 Catalog

First Year

Fall Semester

- 3 * **CGS 1540 Intro to Databases**
- 4 **MAC 1147 Pre-Calculus**
- R EGN 3000 Foundations of Engineering
- 3 ENC 1101 Composition I
- 3 EGN 3000L Foundations of Eng Lab (TGEC)
- 13 *Total Credits*

Spring Semester

- 3 COP 2512 Programming Fundamentals
- 3 **MAD 2104 IT Discrete Math**
- 3 **PHY 2020 Conceptual Physics**
- 3 ENC 1102 Composition II
- 3 St. Gen. Ed. Core Humanities
- 15 *Total Credits*

Second Year

Fall Semester

- 3 COP 2513 Object-Oriented Programming
- 3 CGS 3303 IT Concepts
- 3 ECO 2013 Macroeconomics
(Required St. Gen. Ed. Core Social Science)
- 3 **STA 2023 Introductory Statistics I**
- ↓ Apply for Progression to Upper Division
- 12 *Total Credits*

Spring Semester

- 3 CIS 3213 Found. Of Cyber Security
- 3 COP 3515 Adv. Program Design
- 3 PSY 2012 Psychological Science I
(Req'd St. Gen. Ed. Core Social Science)
- 3 INR 3033 International Political Cultures
- 12 *Total Credits*

Summer

- 3 * General Elective
- 3 Gen. Ed. Human & Cultural Diversity
- 3 Gen. Ed. Information & Data Literacy
- 9 *Total Credits*

Third Year

Fall Semester

- 3 COP 4538 Data Structures and Algorithms
- 3 CEN 3722 Human Computer Interfaces
- 3 CIS 3433 System Integration & Arch.
- 3 General Ed. Natural Science Elective
- 3 * General Elective
- 15 *Total Credits*

Spring Semester

- 3 CGS 3853 Web Systems
- 3 ENC 3246 Communication for Eng.
- 3 CNT 4104 Computer Information Networks
- 1 CNT 4104L Computer Info Networks Lab
- 3 IT Department Elective
- 3 * General Elective
- 16 *Total Credits*

Summer

- Recommended
Internship/Co-op
Company/employer
name and position
(see advisor for credit
options – CIS 4947)

Fourth Year

Fall Semester

- 3 COP 4703 Database Systems for IT
- 3 CIS 4083 Cloud Computing for IT
- 3 CNT 4603 System Admin & Maintenance for IT
- 3 IT Department Elective
- 3 IT Department Elective
- ↓ Apply for Graduation
- 15 *Total Credits*

Spring Semester

- 4 CIS 4935 Senior Project in IT (TGEH)
- 3 CIS 4253 Ethics for Information Technology (TGEE)
- 3 IT Department Elective
- 3 IT Department Elective
- 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 **3.2 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 2021 is 3.20. 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/content.php?catoid=13&navoid=1488>

- 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 prerequisite courses is a C or higher (C- is insufficient).
- 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