

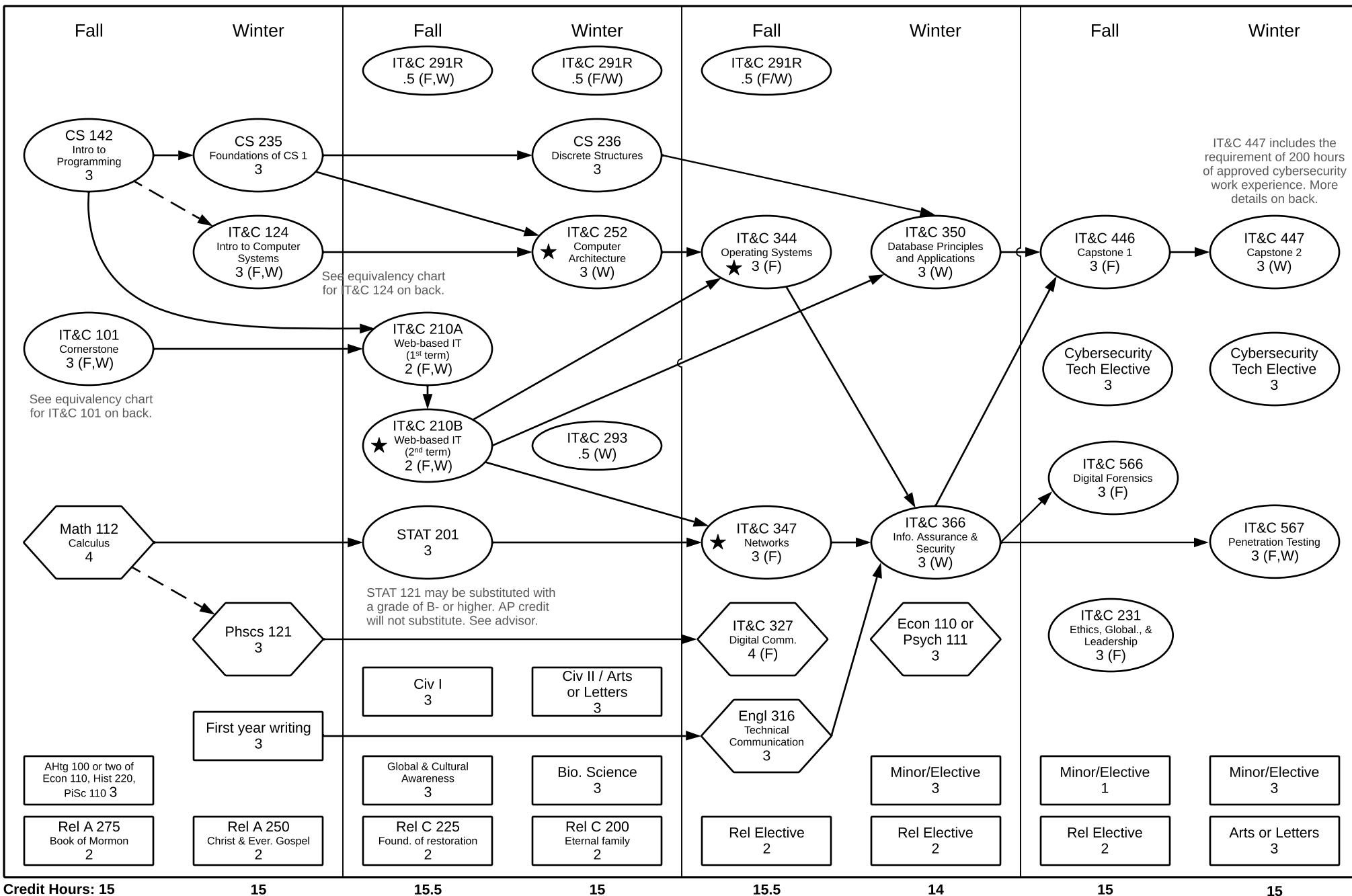
Cybersecurity 2021-2022

FRESHMAN

SOPHOMORE

JUNIOR

SENIOR



Credit Hours: 15

15

15.5

15

15.5

14

15

15

 G.E. Classes

 Major Classes

 Major and G.E. Classes

 Required Prerequisite
 Concurrent Enrollment at BYU with Instructor Permission

★ Students must earn a grade of C or higher in IT&C 210B and IT&C 252 to enroll in IT&C 344 and IT&C 347

Fulfills a CS minor with the addition of CS 240 (4) and two additional CS courses.

Total Credit Hours: 120

IT&C 447 includes the requirement of 200 hours of approved cybersecurity work experience. More details on back.

Cybersecurity Technical Electives

- IT&C 492R on a Cybersecurity topic
- IT&C 515R on a Cybersecurity topic
- IT&C 529 Advanced Networking
- IT&C 544 System Administration
- IT&C 548 Cyber-Physical Systems
- MATH 485 Mathematical Cryptography
- IS 565 Digital Forensics for Organizations

Other courses may be approved by petition. The course must meet certain requirements to be eligible for consideration as a Cybersecurity technical elective.

The course must:

- be a 300 or higher-level course,
- teach at least 70% new material from courses taught by the IT&C program,
- and have 70% of the content related to:
 - the tasks, knowledge, skills, or abilities defined in the current National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework (800-181) or
 - the topics in the NSA/DHS Center for Academic Excellence in Education.

200 Hours of Work Experience

IT&C 447 includes the requirement of 200 hours of approved Cybersecurity work experience. Students majoring in Cybersecurity should have a paid experience that involves cybersecurity activities, which could include defensive activities (e.g., securing databases, networks, mobile apps, websites), digital forensics, or penetration testing activities. Job titles may be things like security analyst, security engineer, security consultant, etc. Job titles may also be more generic, such as system administrator, network engineer, or web developer, so long as you and your supervisor demonstrate that you have performed cybersecurity-related activities for at least 200 hours.

ctbadvisement.byu.edu/itc-work-experience

Common Equivalents

Substitutions do not happen automatically. Please see advisement office.

IT&C 101	IS 110, 201, & 303 (all 3 courses)
IT&C 124	ECEN 220
IT&C 252	CS 224
STAT 201	STAT 121, with a grade of B- or higher. AP credit will not substitute.