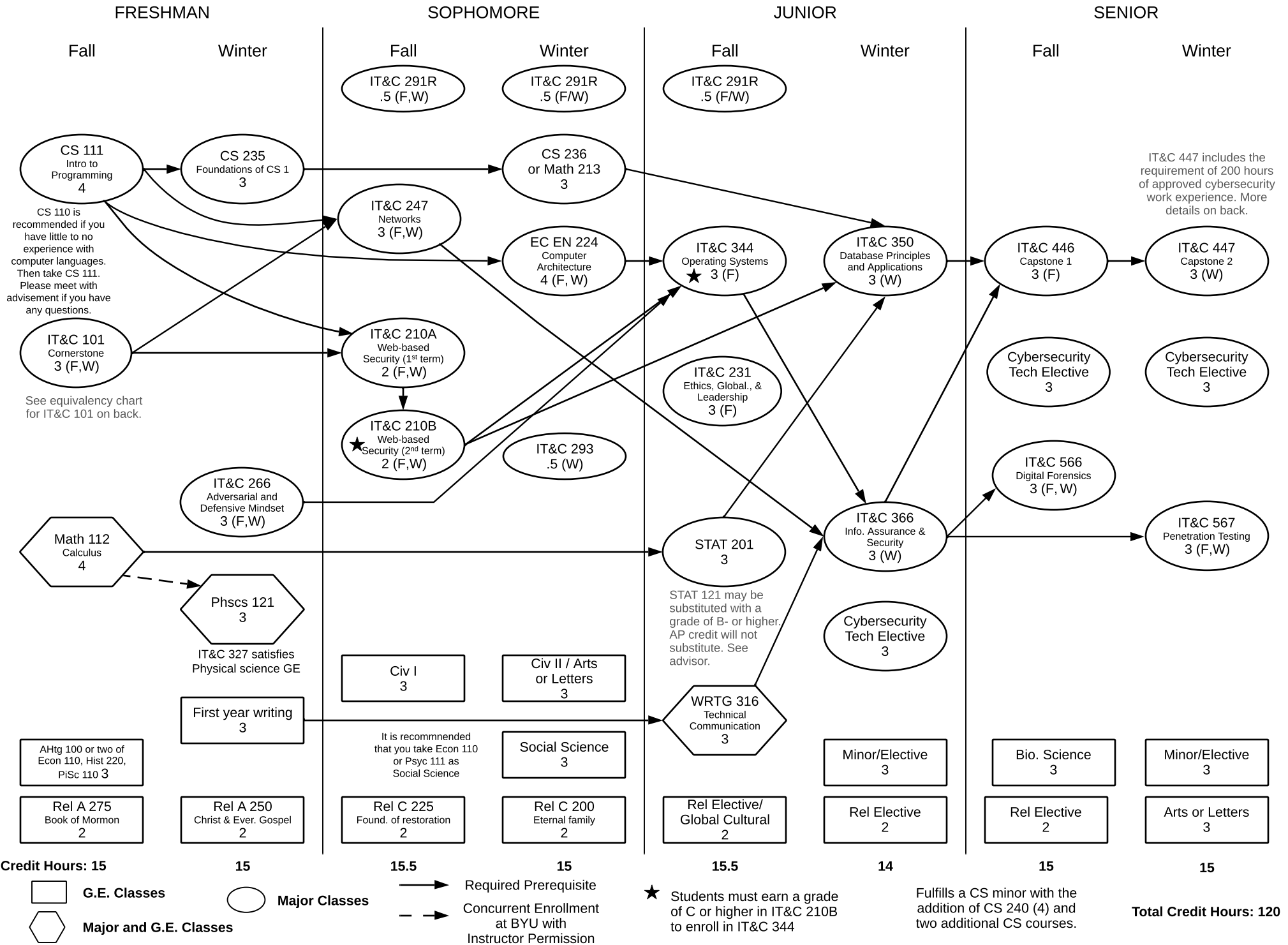


\*Please note\* This flowchart is not a contract.  
For your contract information please see the catalog.

# Cybersecurity 2023-2024

Major Code:  
396527



## Cybersecurity Technical Electives

- EC EN 330 Intro to Embedded Systems
- EC EN 427 Embedded Systems
- EC EN 526 Wireless Networking
- IT&C 327 Digital Communications
- IT&C 441 Embedded Computer Systems
- 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
- IT&C 585 Encryption Implementation
- MATH 485 Mathematical Cryptography
- IS 565 Digital Forensics for Organizations
- IS 567 Cybersecurity and Penetration Testing

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.

[sot.byu.edu/it-c-work-experience](http://sot.byu.edu/it-c-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 566	IS 565
IT&C 567	IS 567
EC EN 224	CS 224 – Please check with advisement, since this may be temporary
IT&C 446	EC EN 475
IT&C 447	EC EN 476
STAT 201	STAT 121, with a grade of B-higher. AP credit will not substitute.