



Major - Information Technology

Computer and Information Sciences

Catalog Year 2024-2025 and Later

Required Information Technology Courses

41 Units

| | | Units |
|-------|--|-------|
| _____ | COSC 111 Information & Tech for Business | 3 |
| _____ | COSC 175 General Computer Science | 4 |
| _____ | CIS 211 Fundamentals of IS & Business | 3 |
| _____ | COSC 236 Intro to Computer Science I | 4 |
| _____ | ITEC 231 Fundamentals of Web Technologies | 3 |
| _____ | ITEC 250 Fundamentals of Computer Networks | 3 |
| _____ | ITEC 274 Fundamentals of Sys. Management | 3 |
| _____ | ITEC 315 Data & Information Management | 3 |
| _____ | ITEC 325 Sys. Admin & Maintenance | 3 |
| _____ | ITEC 345 Scripting Languages | 3 |
| _____ | CIS 377 Introduction to Cybersecurity | 3 |
| _____ | ITEC 411 Sys. Architecture & Integration | 3 |
| _____ | CIS 435 Human Computer Interaction | 3 |

Required Math Courses

9 Units

| | | Units |
|-------|--|-------|
| _____ | MATH 115 College Algebra | 3 |
| _____ | MATH 231 Basic Statistics OR | 3 |
| _____ | ECON 205 Statistics for Business & Economics | 3 |
| _____ | MATH 263 Discrete Mathematics | 3 |

Required Core Courses

9 Units

| | | Units |
|-------|---|-------|
| _____ | COMM 131 Public Speaking (Core 5) | 3 |
| _____ | ENGL 317 Writing for Business & Industry (Core 9) | 3 |
| _____ | COSC 418 Ethical/Societal Concerns CS (Core 14) | 3 |

Elective ITEC Courses

18-19 Units

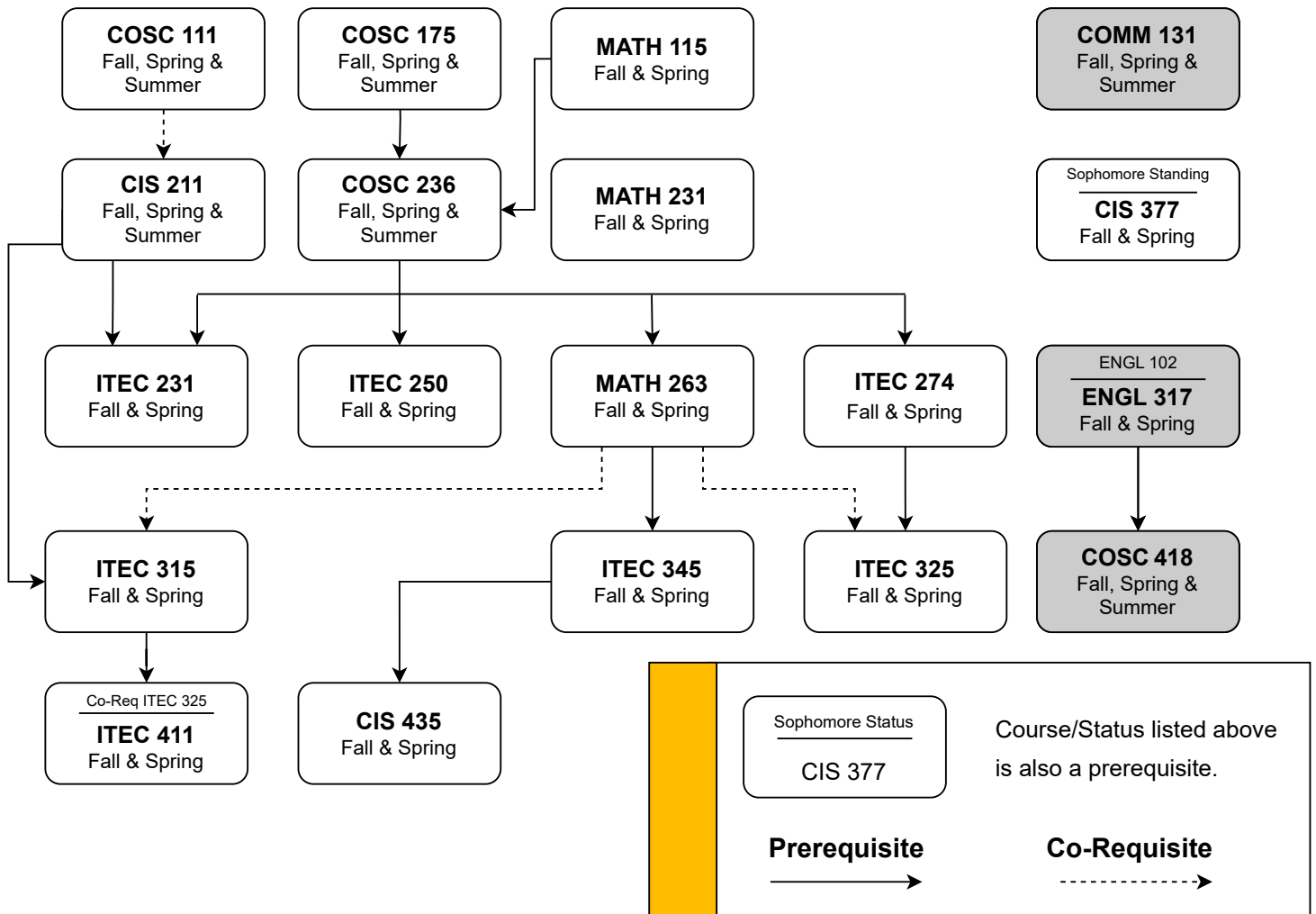
(At least 15 units must be upper-level)

| | | Units |
|-------|--|-------|
| _____ | CIS 212 Intro to Business Programming OR | 3 |
| _____ | CIS 265 Visual Basic Programming OR | 3 |
| _____ | COSC 237 Introduction to Computer Science II OR | 4 |
| _____ | ITEC 217 Computer Hardware & Infrastructure | 3 |
| _____ | CIS 328 Data Analytics | 3 |
| _____ | CIS 426 Gaming Design | 3 |
| _____ | CIS 428 Text Analytics | 3 |
| _____ | CIS 436 E-Government | 3 |
| _____ | CIS 440 Sys Development for E-Commerce | 3 |
| _____ | CIS 445 Universal Usability | 3 |
| _____ | CIS 468 Applied Data Mining & Visual Analytics | 3 |
| _____ | ITEC 336 Legal & Policy Issues in IT | 3 |
| _____ | ITEC 357 Network/Security Practicum | 3 |
| _____ | ITEC 397 Internship in Information Technology | 3 |
| _____ | ITEC 423 Emerging Internet Technologies | 3 |
| _____ | ITEC 425 Enterprise IT Architecture | 3 |
| _____ | ITEC 427 Cloud Computing for Enterprises | 3 |
| _____ | ITEC 433 Cybersecurity Risk Management | 3 |
| _____ | ITEC 437 Disaster Recovery | 3 |
| _____ | ITEC 450 Advanced Networking | 3 |
| _____ | ITEC 451 Advanced Data Management/Analysis | 3 |
| _____ | ITEC 457 Applied Network Security | 3 |
| _____ | ITEC 464 Web Development | 3 |
| _____ | ITEC 470 Special Topics in IT | 3 |
| _____ | ITEC 485 Information Technology Practicum | 3 |
| _____ | ITEC 495 Independent Study in IT | 3 |

Total Units: 77-78

Major - Information Technology

Catalog Year 2024-2025 and Later



| Elective Prerequisites | | |
|------------------------|--------------------------------|----------------------|
| CIS 212 | Programming experience | Fall & Spring |
| CIS 265 | Programming experience | Fall & Spring |
| COSC 237 | COSC 236, MATH 273 | Fall, Spring, Summer |
| ITEC 217 | CIS 211 | Fall |
| CIS 328 | CIS 211, (MATH 231/330) | Fall & Spring |
| CIS 426 | ITEC 411 | Fall |
| CIS 428 | CIS 328, ITEC 345 | Fall & Spring |
| CIS 436 | ITEC 411 | Spring |
| CIS 440 | ITEC 411 | Fall |
| CIS 445 | ITEC 411 | Spring |
| CIS 468 | CIS 328, ITEC 345 | Fall & Spring |
| ITEC 336 | CIS 211, Co-Req CS 236 | Fall & Spring |
| ITEC 357 | CIS 377, ITEC 250 | Fall & Spring |
| ITEC 397 | ITEC 315/325/345, 2.75 GPA, IC | Fall, Spring, Summer |
| ITEC 423 | ITEC 231 | Fall, Spring, Summer |
| ITEC 425 | ITEC 411 | Spring |
| ITEC 427 | ITEC 231 | Fall & Spring |
| ITEC 433 | CIS 377, ITEC 250 | Fall & Spring |
| ITEC 437 | ITEC 325 | Fall & Spring |
| ITEC 450 | ITEC 250, ITEC 325 | Spring |
| ITEC 451 | ITEC 315 | Fall |
| ITEC 457 | CIS 377, ITEC 250 | Fall & Spring |
| ITEC 464 | ITEC 231 | Fall & Spring |
| ITEC 470 | 12 units of CS/IT/IS | Occasionally |
| ITEC 485 | ITEC 411, Senior Standing | Fall & Spring |
| ITEC 495 | Senior Standing | Occasionally |

**All course prerequisites are strictly enforced.*

Find more advising resources at:

<https://www.towson.edu/fcsm/departments/computerinfosci/resources/advising.html>

View Third Attempt / Prerequisite Policy at:

<https://www.towson.edu/fcsm/departments/computerinfosci/resources/>

Visit the CIS Advising Hub in YR 207

Or Email: cisadvising@towson.edu

