



Computer and Information Sciences

Major - Information Technology

Catalog Year 2025-2026 and Later

Required Information Technology Courses

38 Units

Units

_____	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)

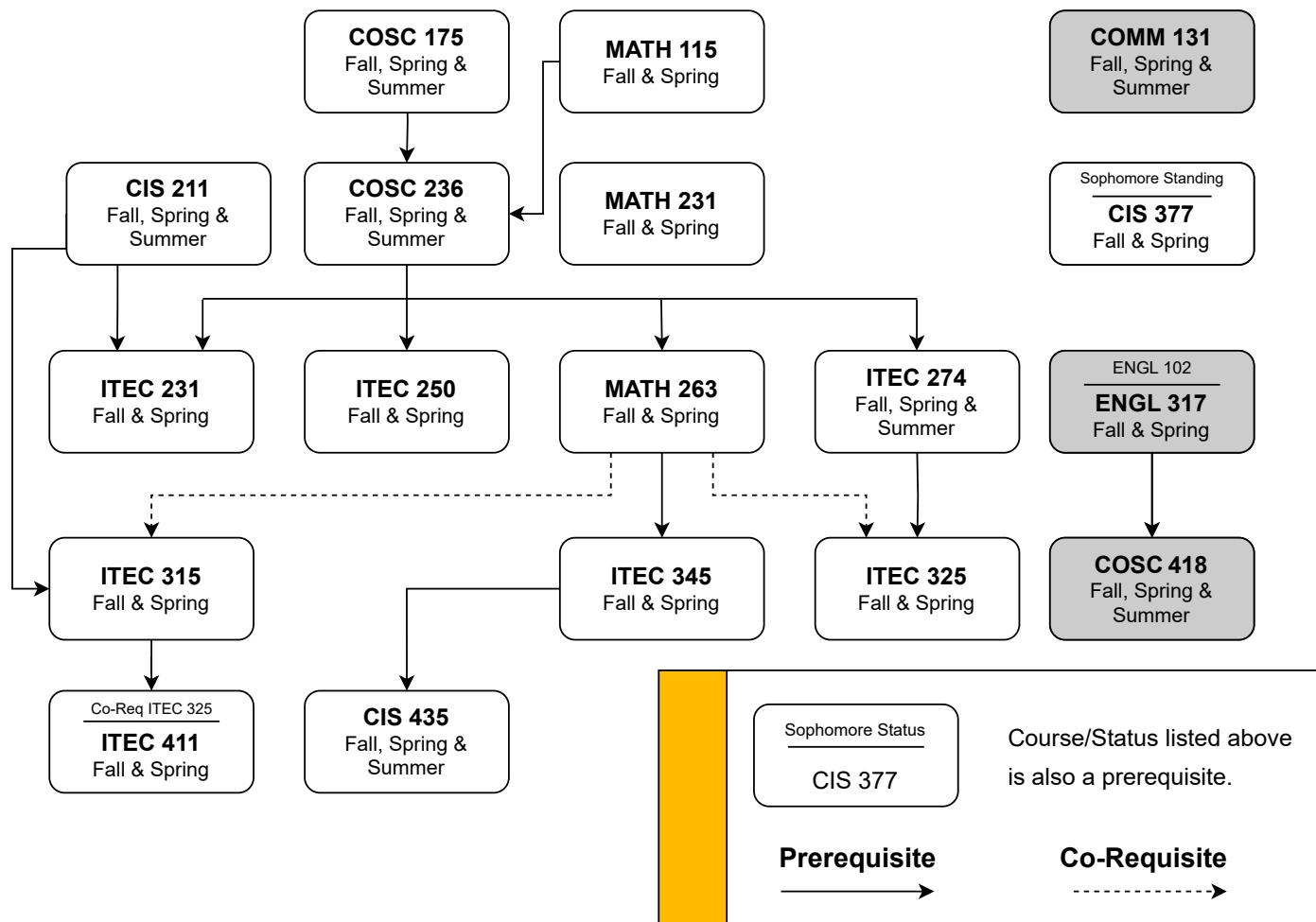
Units

_____	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: 74-75

Major - Information Technology

Catalog Year 2025-2026 and Later



Elective Prerequisites

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

