



Computer and Information Sciences

Major - Information Technology

Catalog Year 2026-2027 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 OR	4
_____	ITEC 236 Fundamentals of Programming	
_____	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 OR	3
_____	MATH 261 Discrete Mathematics for Applications	

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

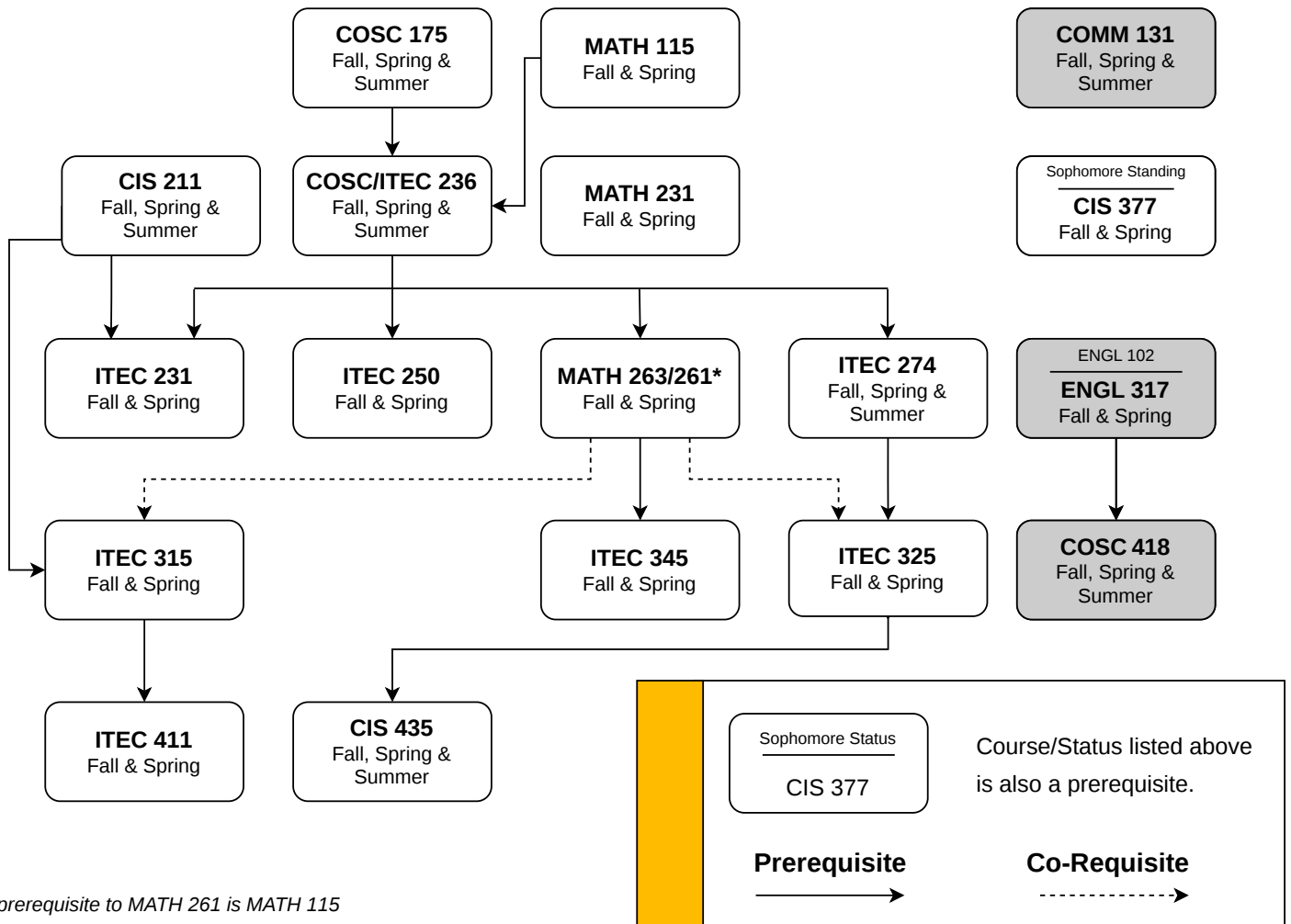
(At least 15 units must be upper-level)

		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 368 Intro to Applied AI	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 455 Human Centered AI & Co-Creation	3
_____	CIS 468 Applied Data Science & Machine Learning	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 467 Fundamentals of SOC Analysis	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 2026-2027 and Later



*The prerequisite to MATH 261 is MATH 115

Elective Prerequisites

CIS 212	Programming experience	Occasional
CIS 265	Programming experience	Fall, Spring & Summer
COSC 237	COSC 236, MATH 273	Fall, Spring & Summer
ITEC 217	CIS 211	Fall
CIS 328	CIS 211, (MATH 231/330)	Fall & Spring
CIS 368	CIS 211, COSC236/ITEC236, (MATH231/MATH330/ECON205)	Fall
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 455	CIS435	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 & Summer
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	Fall & Spring
ITEC 451	ITEC 315	Fall & Spring
ITEC 457	CIS 377, ITEC 250	Fall & Spring
ITEC 464	ITEC 231	Fall & Spring
ITEC 467	12 Units of IT/CS/CIS	Fall & Spring
ITEC 470	12 units of CS/IT/IS	Occasionally
ITEC 485	ITEC 411, Senior Standing	Fall & Spring
ITEC 495	Senior Standing	Occasionally

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

*All course prerequisites are strictly enforced.

