



Major - Information Systems Systems Track

Computer and Information Sciences

Catalog Year 2024-2025 and Later

Required Information Systems Courses

35 Units

		Units
___	CIS 211 Fundamentals of Info Sys and Tech	3
___	COSC 236 Introduction to Computer Science I	4
___	COSC 237 Introduction to Computer Science II	4
___	ITEC 231 Fundamentals of Web Technologies	3
___	CIS 239 Enterprise Systems & Architecture	3
___	CIS 350 Telecommunications	3
___	CIS 377 Introduction to Cybersecurity	3
___	CIS 379 Systems Analysis & Design	3
___	CIS 435 Human Computer Interaction	3
___	CIS 458 Organizational Database Management	3
___	CIS 479 Software Project Management	3

Required Systems Track Courses

16 Units

		Units
___	CIS 328 Introduction to Data Analytics	3
___	COSC 336 Data Structures	4
___	COSC 412 Software Engineering	3
___	COSC 436 Object-Oriented Design/Programming	3
___	COSC 484 Web Programming	3

IS Capstone

3 Units

		Units
___	CIS 475 Information Systems Capstone	3

Required Math Courses

10 Units

		Units
___	MATH 231 Basic Statistics	3
___	MATH 263 Discrete Mathematics	3
___	MATH 273 Calculus I	4

Elective IS Courses

6 Units

		Units
Select 2 courses from the following:		
___	CIS 212 Intro to Business Programming OR	3
___	CIS 265 Visual Basic	3
___	CIS 397 Internship in IS	3
___	CIS 425 Decision Support Systems	3
___	CIS 428 Text Analytics	3
___	CIS 433 Selected Topics in IS	3
___	CIS 440 E-Commerce	3
___	CIS 468 Data Mining & Visual Analytics	3
___	CIS 495 Independent Study in IS	3
___	ITEC 345 Scripting Languages	3
___	ITEC 423 Emerging Internet Technologies	3
___	ITEC 427 Cloud Computing	3

Required Core Courses

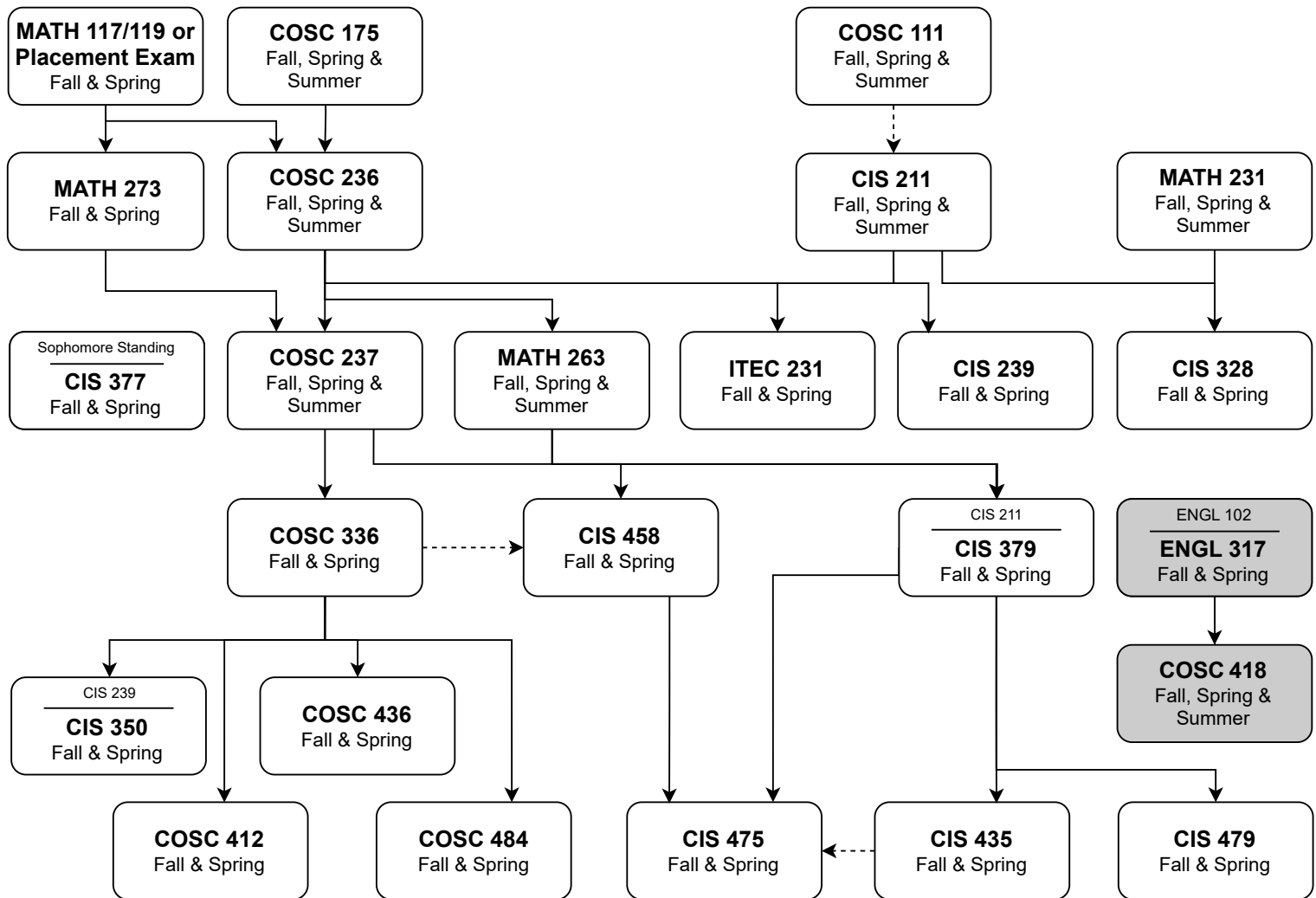
6 Units

		Units
___	ENGL 317 Writing for Business & Industry (Core 9)	3
___	COSC 418 Ethical/Societal Concerns CS (Core 14)	3

Total Units: 76

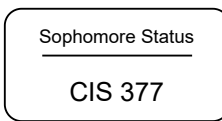
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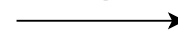
Elective Prerequisites

Course	Prerequisites	Offered
CIS 212	COSC 111/Programming Experience	Fall & Spring
CIS 265	Programming Experience	Fall & Spring
CIS 397	CIS 334 or COSC 336, 2.75 GPA, IC	Fall, Spring & Summer
CIS 425	CIS 379, MATH 231	Occasionally
CIS 428	CIS 328, (CIS 334 or COSC 336)	Fall & Spring
CIS 433	9 units of IS, Instructor Consent	Occasionally
CIS 440	CIS 379 or ITEC 411	Fall
CIS 468	MATH 231, CIS 334	Spring
CIS 495	Senior Standing, Instructor Consent	Occasionally
ITEC 345	COSC 236, MATH 263	Fall & Spring
ITEC 423	ITEC 231	Fall, Spring & Summer
ITEC 427	ITEC 231	Fall & Spring

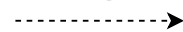


Course/Status listed above is also a prerequisite.

Prerequisite



Co-Requisite



*IC refers to instructor consent

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.