



Major - Information Systems Systems Track

Computer and Information Sciences

Catalog Year 2026-2027 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

Required Core Courses

6 Units

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

Elective IS Courses

6 Units

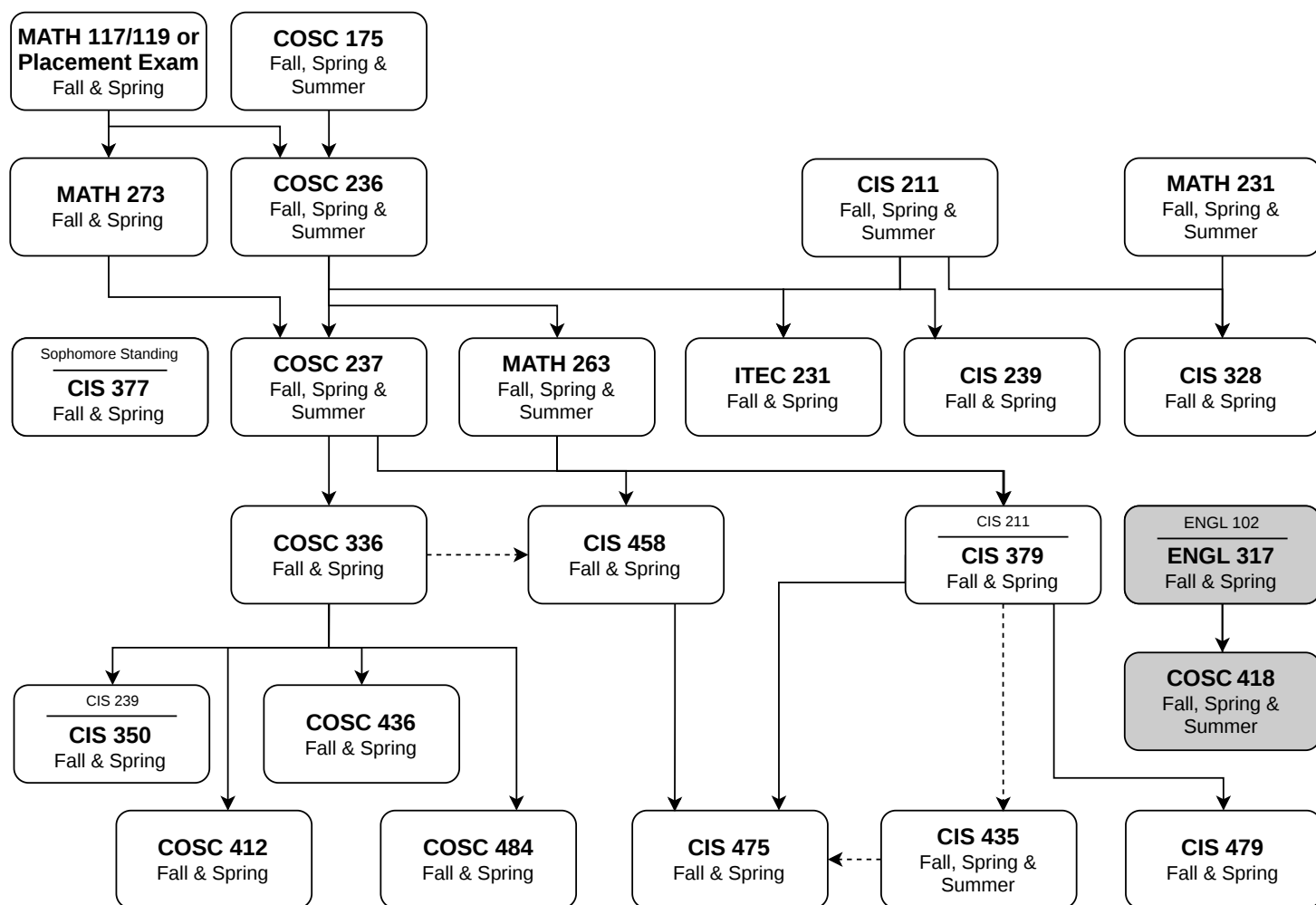
Select 2 courses from the following:

		Units
_____ CIS 212	Intro to Business Programming OR	3
_____ CIS 265	Visual Basic	3
_____ CIS 368	Intro to Applied AI	3
_____ CIS 397	Internship in IS	3
_____ CIS 428	Text Analytics	3
_____ CIS 433	Selected Topics in IS	3
_____ CIS 440	E-Commerce	3
_____ CIS 455	Human Centered AI and Co-Creation	3
_____ CIS 468	Applied Data Science and Machine Learning	3
_____ CIS 495	Independent Study in IS	3
_____ ITEC 345	Scripting Languages	3
_____ ITEC 423	Emerging Internet Technologies	3
_____ ITEC 427	Cloud Computing	3

Total Units: 76

Major - Information Systems Systems Track

Catalog Year 2026-2027 and Later



Elective Prerequisites

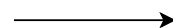
Course	Prerequisites	Offered
CIS 212	COSC 111/Programming Experience	Occasional
CIS 265	Programming Experience	Fall, Spring & Summer
CIS 368	CIS 211, COSC236 or ITEC236, (MATH231, MATH330, or ECON205)	Fall
CIS 397	CIS 334 or COSC 336, 2.75 GPA, IC	Fall, Spring & Summer
CIS 428	CIS 328, (CIS 334 or COSC 336)	Fall & Spring
CIS 433	9 units of IS, Instructor Consent	Occasionally
CIS 440	CIS 379 or ITEC 411	Fall
CIS 455	CIS435	Spring
CIS 468	MATH 231, CIS 334	Fall & 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

Sophomore Status

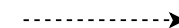
CIS 377

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.

