



Major - Information Systems Data Analytics 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 Data Analytics Track Courses

15-16 Units

		Units
___	CIS 328 Intro to Data Analytics	3
___	CIS 334 Data Organization OR	3
___	COSC 336 Data Structures	4
___	CIS 428 Text Analytics	3
___	CIS 468 Applied Data Mining	3
___	ITEC 336 Legal & Policy Issue in IT	3

IS Capstone

3 Units

		Units
___	CIS 475 Information Systems Capstone	3

Required Math Courses

9-10 Units

		Units
___	MATH 231 Basic Statistics	3
___	MATH 263 Discrete Mathematics	3
___	MATH 211 Calculus for Applications OR	3
___	MATH 273 Calculus I	4

Elective IS Courses

6 Units

Select 2 courses from the following:

		Units
___	CIS 265 Visual Basic	3
___	CIS 397 Internship in IS	3
___	CIS 426 Gaming Interface Design	3
___	CIS 433 Selected Topics in IS	3
___	CIS 436 E-Government	3
___	CIS 495 Independent Study in IS	3
___	ITEC 427 Cloud Computing	3

Required Core Courses

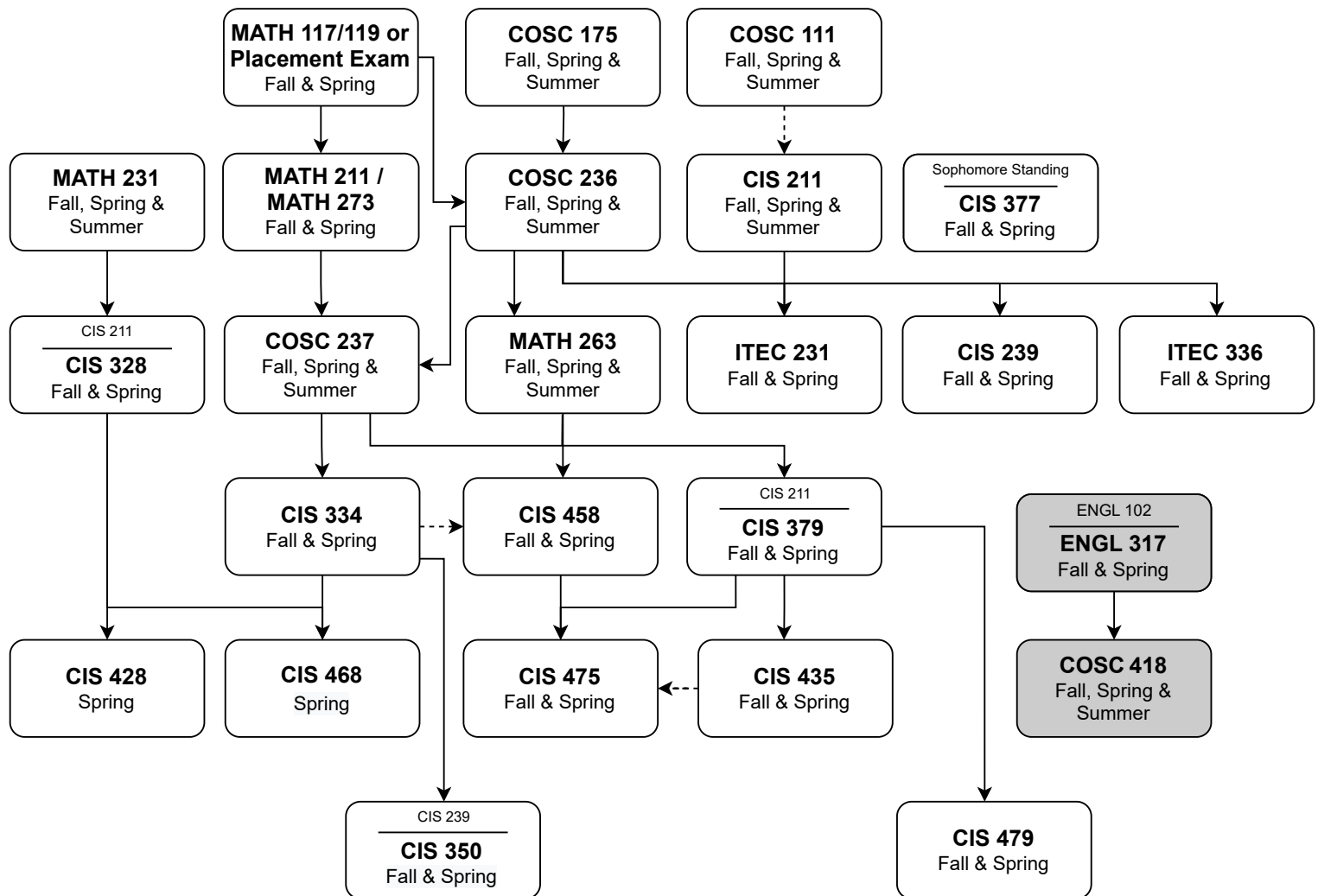
6 Units

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

Total Units: 74-76

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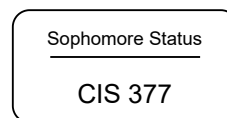
Catalog Year 2024-2025 and Later



Elective Prerequisites

Course	Prerequisites	Offered
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 426	CIS 328 or ITEC 411	Fall
CIS 433	9 units of IS, Instructor Consent	Occasionally
CIS 436	CIS 379	Fall
CIS 495	Senior Standing, Instructor Consent	Occasionally
ITEC 427	ITEC 231	Fall & Spring

*IC refers to instructor consent

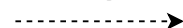


Course/Status listed above is also a prerequisite.

Prerequisite



Co-Requisite



**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

