



Major - Information Technology Data Management & Analytics

Computer and Information Sciences

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 Data Management & Analytics Track Courses

12 Units

Units

_____	CIS 328	Introduction to Data Analytics	3
_____	CIS 428	Text Analytics	3
_____	CIS 468	Applied Data Mining & Visual Analytics	3
_____	ITEC 451	Advanced Data Management/Analysis	3

Elective ITEC Courses

6 Units

Select 2 of the following:

Units

_____	ITEC 397	Information Technology Internship	3
_____	ITEC 423	Emerging Internet Technologies	3
_____	ITEC 427	Cloud Computing for Enterprises	3
_____	ITEC 437	Disaster Recovery	3
_____	ITEC 464	Web Development	3
_____	ITEC 470	Special Topics in Information Technology	3
_____	ITEC 485	Information Technology Senior Practicum	3

Total Units: 74

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

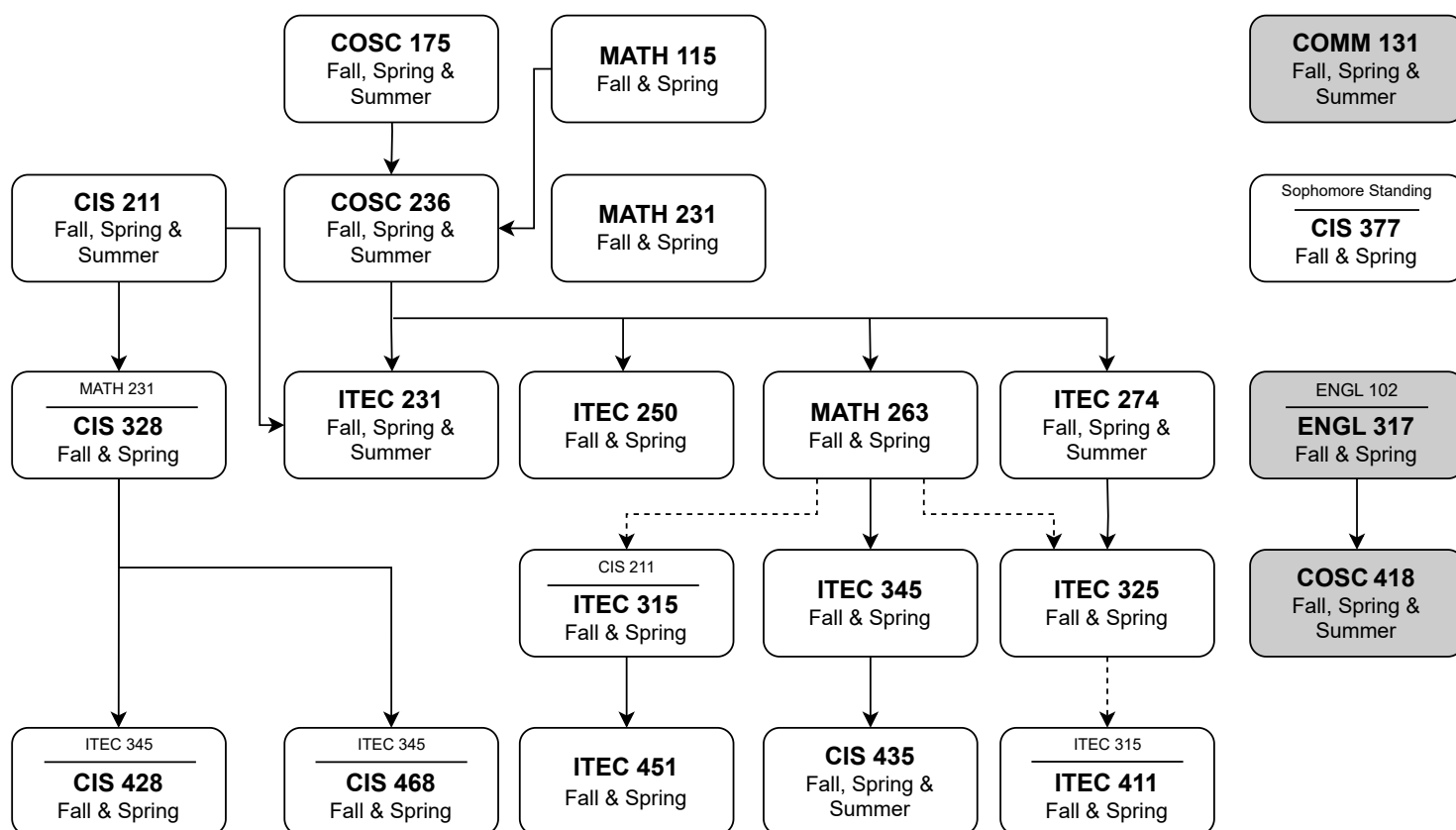
9 Units

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

Major - Information Technology with a Track in Data Management & Analytics

Catalog Year 2025-2026 and Later



**All course prerequisites are strictly enforced.*

Elective Prerequisites

Elective	Prerequisites
ITEC 397	ITEC 315/ITEC 325/ITEC 345, 2.75 GPA, IC
ITEC 423	ITEC 231
ITEC 427	ITEC 231
ITEC 437	ITEC 325
ITEC 464	ITEC 231
ITEC 470	12 units of ITEC, COSC or CIS
ITEC 485	ITEC 411 and Senior Standing

Offered
Fall, Spring & Summer
Fall, Spring & Summer
Fall & Spring
Fall & Spring
Fall & Spring
Fall & Spring
Occasionally
Fall & Spring

Sophomore Status

CIS 377

Prerequisite

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Co-Requisite

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Course/Status listed above
is also a prerequisite.

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

