



Computer and Information Sciences

Major - Information Technology Data Management & Analytics

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

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

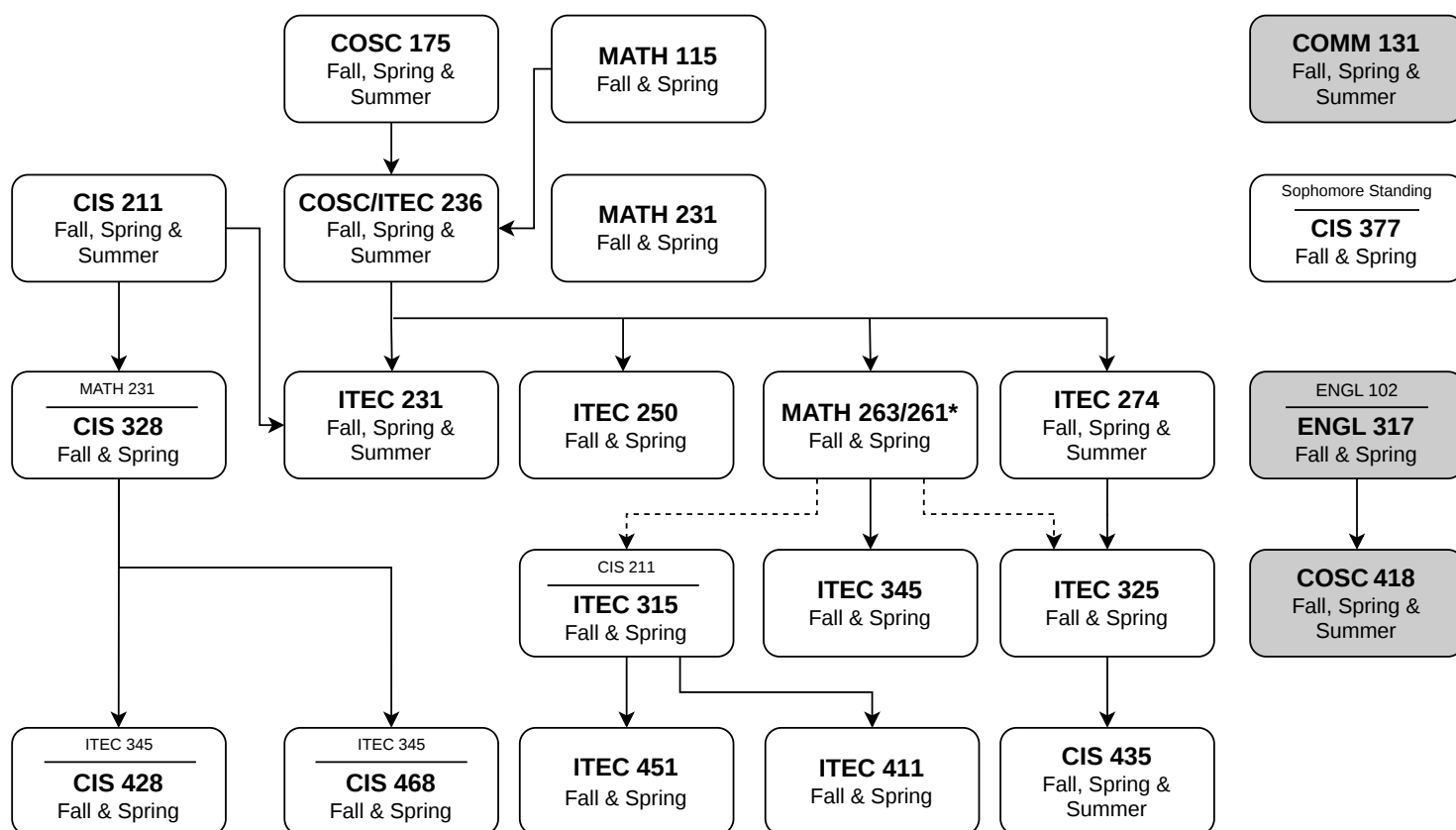
6 Units

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

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

Catalog Year 2026-2027 and Later



*The prerequisite to MATH 261 is MATH 115

*All course prerequisites are strictly enforced.

Elective Prerequisites

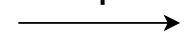
Elective	Prerequisites
ITEC 397	ITEC 315/ITEC 325/ITEC 345, 2.75 GPA, IC
ITEC 423	ITEC 231
ITEC 427	ITEC 231
ITEC 437	ITEC 325
ITEC 464	ITEC 231
ITEC 470	12 units of ITEC, COSC or CIS
ITEC 485	ITEC 411 and Senior Standing

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

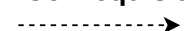
Sophomore Status

CIS 377

Prerequisite



Co-Requisite



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

