

Computer and Information Sciences

Major - Information Systems Systems Track

Catalog Year 2019-2020 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 440 Systems Development for E-Commerce	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

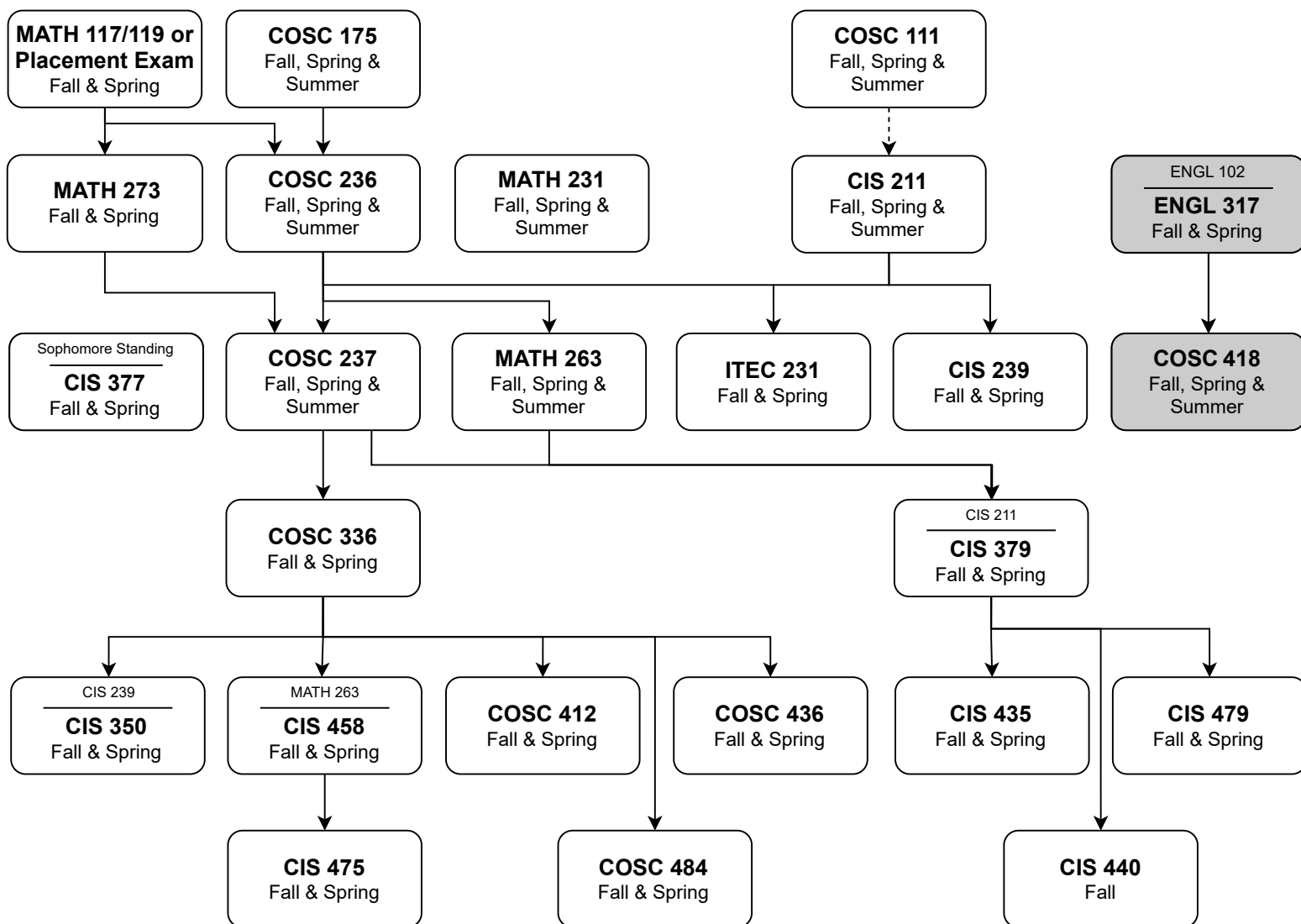
6 Units

		Units
Select 2 courses from the following:		
_____	CIS 212 Intro to Business Programming OR	3
_____	CIS 265 Visual Basic	3
_____	CIS 328 Data Analytics	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 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

Total Units: 76

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Catalog Year 2019-2020 and Later



Elective Prerequisites

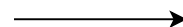
Course	Prerequisites	Offered
CIS 212	COSC 111/Programming Experience	Fall & Spring
CIS 265	Programming Experience	Fall & Spring
CIS 328	CIS 211, (MATH 231 or MATH 330)	Fall & Spring
CIS 397	CIS 334 or COSC 336, 2.75 GPA, IC	Fall, Spring & Summer
CIS 425	CIS 379, MATH 231	Occasionally
CIS 428	CIS 328, (CIS 334 or COSC 336)	Fall & Spring
CIS 433	9 units of IS, Instructor Consent	Occasionally
CIS 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

Sophomore Status

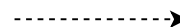
CIS 377

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>

Visit the CIS Advising Hub in YR 207

Or Email: cisadvising@towson.edu

