

Computer and Information Sciences

Major - Information Technology

Catalog Year 2019-2020 and Later

Required Information Technology Courses

41 Units

Units

_____	COSC 111	Information & Tech for Business	3
_____	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 Math Courses

6 Units

Units

_____	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

Elective ITEC Courses

18 Units

(At least 15 units must be upper-level)

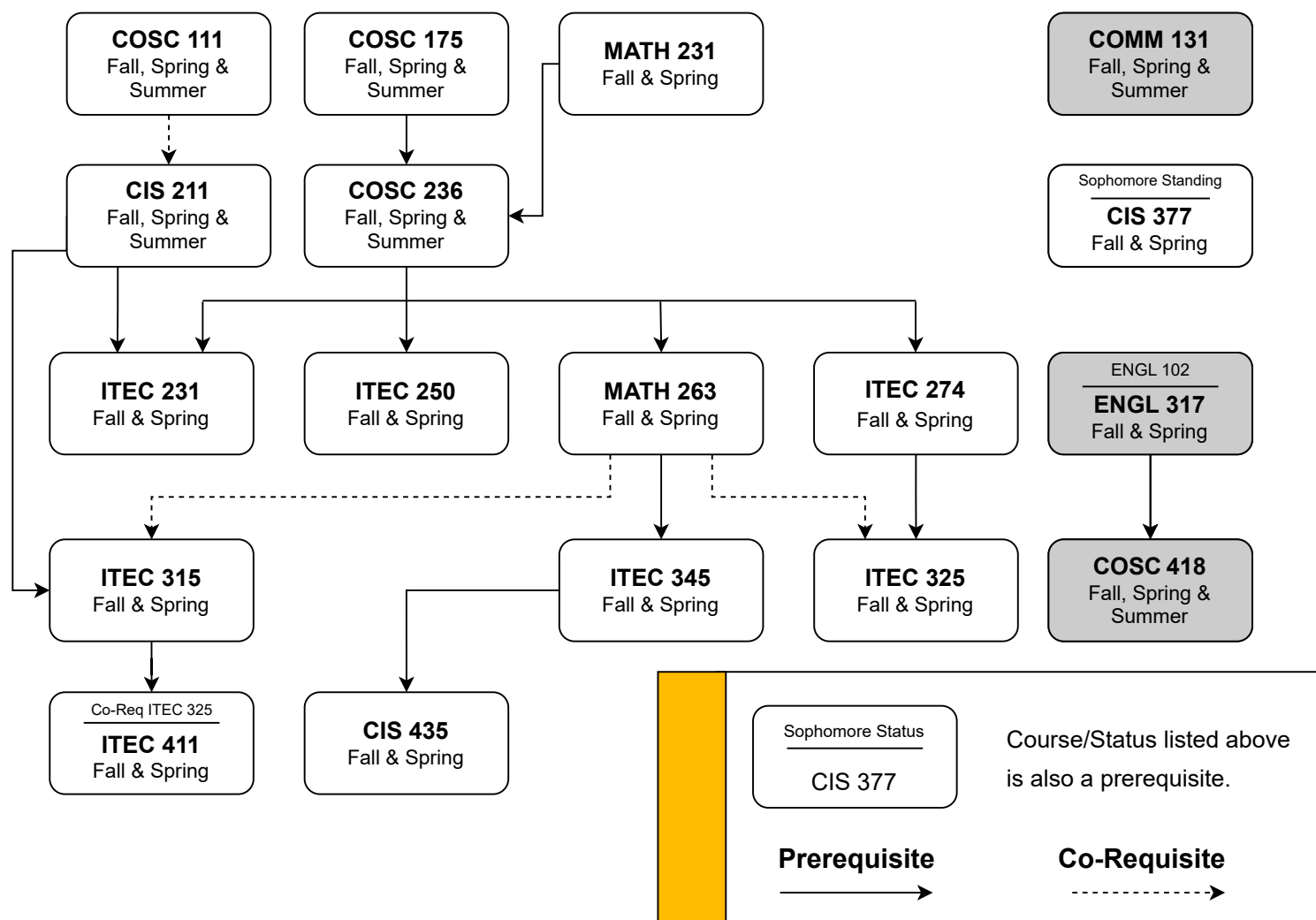
Units

_____	CIS 212	Intro to Business Programming OR	3
_____	CIS 265	Visual Basic Programming OR	3
_____	COSC 237	Introduction to Computer Science II OR	4
_____	ITEC 217	Computer Hardware & Infrastructure	3
_____	CIS 328	Data Analytics	3
_____	CIS 426	Gaming Design	3
_____	CIS 428	Text Analytics	3
_____	CIS 436	E-Government	3
_____	CIS 440	Sys Development for E-Commerce	3
_____	CIS 445	Universal Usability	3
_____	CIS 468	Applied Data Mining & Visual Analytics	3
_____	ITEC 336	Legal & Policy Issues in IT	3
_____	ITEC 357	Network/Security Practicum	3
_____	ITEC 397	Internship in Information Technology	3
_____	ITEC 423	Emerging Internet Technologies	3
_____	ITEC 425	Enterprise IT Architecture	3
_____	ITEC 427	Cloud Computing for Enterprises	3
_____	ITEC 433	Cybersecurity Risk Management	3
_____	ITEC 437	Disaster Recovery	3
_____	ITEC 450	Advanced Networking	3
_____	ITEC 451	Advanced Data Management/Analysis	3
_____	ITEC 457	Applied Network Security	3
_____	ITEC 464	Web Development	3
_____	ITEC 470	Special Topics in IT	3
_____	ITEC 485	Information Technology Practicum	3
_____	ITEC 495	Independent Study in IT	3

Total Units: 74-75

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Catalog Year 2019-2020 and Later



Elective Prerequisites

CIS 212	Programming experience	Fall & Spring	ITEC 397	ITEC 315/325/345, 2.75 GPA, IC	Fall, Spring, Summer
CIS 265	Programming experience	Fall & Spring	ITEC 423	ITEC 231	Fall, Spring, Summer
COSC 237	COSC 236, MATH 273	Fall, Spring, Summer	ITEC 425	ITEC 411	Spring
ITEC 217	CIS 211	Fall	ITEC 427	ITEC 231	Fall & Spring
CIS 328	CIS 211, (MATH 231/330)	Fall & Spring	ITEC 433	CIS 377, ITEC 250	Fall & Spring
CIS 426	ITEC 411	Fall	ITEC 437	ITEC 325	Fall & Spring
CIS 428	CIS 328, ITEC 345	Fall & Spring	ITEC 450	ITEC 250, ITEC 325	Spring
CIS 436	ITEC 411	Spring	ITEC 451	ITEC 315	Fall
CIS 440	ITEC 411	Fall	ITEC 457	CIS 377, ITEC 250	Fall & Spring
CIS 445	ITEC 411	Spring	ITEC 464	ITEC 231	Fall & Spring
CIS 468	CIS 328, ITEC 345	Fall & Spring	ITEC 470	12 units of CS/IT/IS	Occasionally
ITEC 336	CIS 211, Co-Req CS 236	Fall & Spring	ITEC 485	ITEC 411, Senior Standing	Fall & Spring
ITEC 357	CIS 377, ITEC 250	Fall & Spring	ITEC 495	Senior Standing	Occasionally

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

