

Towson University

Computer & Information Sciences

Information Technology

Program Requirements: CY 2016-17 and later

Required Courses (43 units)		Units	Offered
— COSC 111	Information and Technology for Business	3	Fall & Spring
— CIS 211	Fundamentals of Information Systems and Technology	3	Fall & Spring
— COSC 236	Introduction to Computer Science I	4	Fall & Spring
— ITEC 231	Fundamentals of Web Technologies	3	Fall & Spring
— ITEC 250	Fundamentals of Computer Networks	3	Fall & Spring
— ITEC 274	Fundamentals of System Management	3	Fall & Spring
— ITEC 315	Data and Information Management	3	Fall & Spring
— ITEC 325	System Administration and Maintenance	3	Fall & Spring
— ITEC 345	Scripting Languages	3	Fall & Spring
— CIS 377	Information Systems Security	3	Fall & Spring
— ITEC 411	System Architecture and Integration	3	Fall & Spring
— CIS 435	Human Computer Interaction	3	Fall & Spring
— ITEC 485	Information Technology Capstone	3	Fall & Spring
— COSC 418	Ethics and Societal Concerns of Computer Scientists	3	Fall & Spring

Elective Courses (15 units) [must complete at least 4 upper level electives]		Units	Offered
CIS 212	Introduction to Business Programming OR		Spring
ITEC 217	Computing Hardware and Infrastructure OR		Fall
— CIS 265	Visual Basic Programming OR	3-4	Fall & Spring
COSC 237	Introduction to Computer Science II		Fall & Spring
— CIS 426	Gaming Design	3	Occasionally
— CIS 436	E-Government	3	Spring
— CIS 440	Systems Development for E-Commerce	3	Fall
— CIS 445	Universal Usability	3	Spring
— CIS 468	Applied Data Mining & Visual Analytics	3	Spring
— ITEC 336	Legal and Policy Issues in Information Technology	3	Fall
— ITEC 397	Internship in Information Technology	3	Fall, Spring & Summer
— ITEC 423	Emerging Internet Technologies	3	Fall & Spring
— ITEC 425	Enterprise IT Architecture	3	Spring
— ITEC 427	Cloud Computing for Enterprises	3	Spring
— ITEC 437	Disaster Recovery and Enterprise Continuity	3	Fall & Spring
— ITEC 450	Advanced Networking	3	Fall
— ITEC 451	Advanced Data Management and Analysis	3	Spring
— ITEC 464	Web Development	3	Fall & Spring
— ITEC 470	Special Topics in Information Technology	3	Occasionally
— ITEC 495	Independent Study in Information Technology	3	Occasionally

Required General Education / Core Courses (9 units)		Units	Offered
— COMM 131/132	Fundamental of Speech Communication / Honors (Core 5)	3	Fall & Spring
— MATH 231/233	Basic Statistics / Honors (Core 3) OR	3	Fall & Spring
— ECON 205	Statistics for Business and Economics (Core 3)	3	Fall & Spring
— ENGL 317	Writing for Business and Industry (Core 9)	3	Fall & Spring

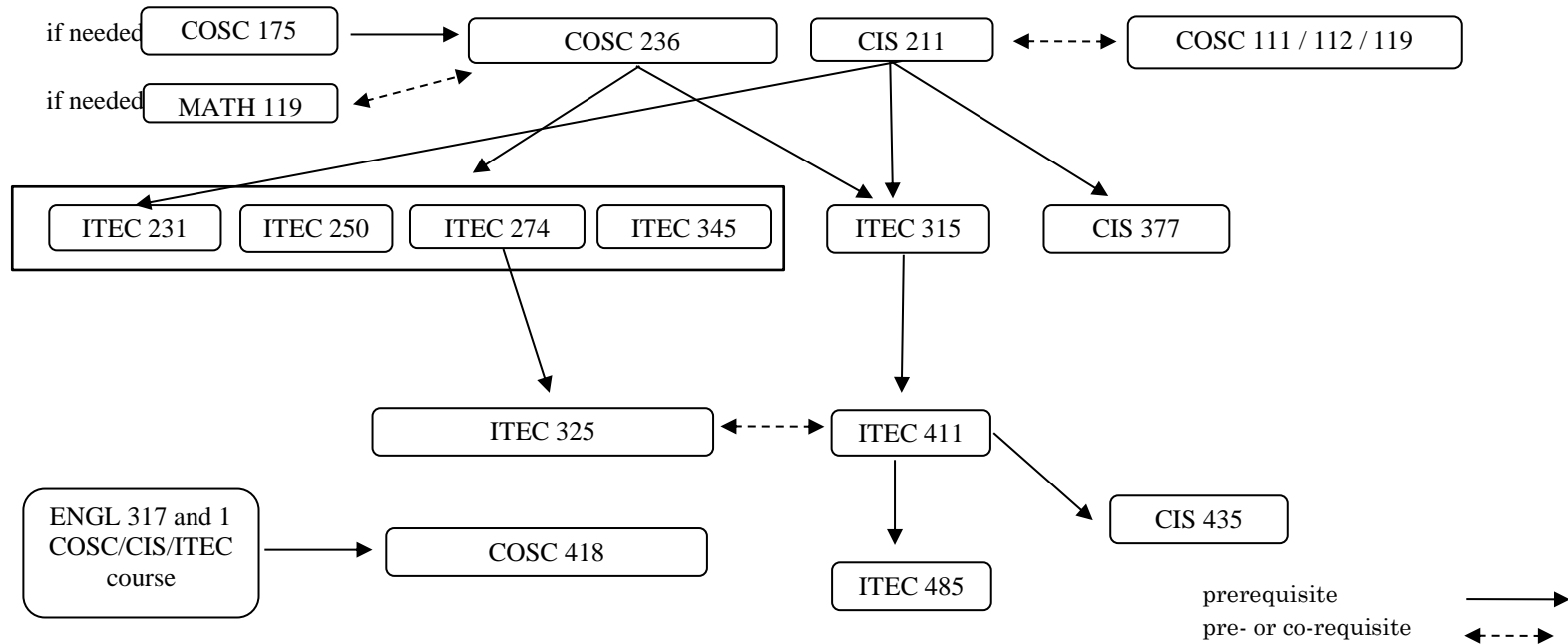
Total Units **67**

Note: All courses required for the major MUST be completed with a C (2.0) or better

updated 1/2017

Computer & Information Sciences Information Technology

Prerequisites: CY 2016-17 and later



Electives:

- | | |
|---|--|
| ITEC 217 - CIS 211
CIS 212 - previous programming experience
CIS 265 - previous programming experience
COSC 237 - COSC 236
CIS 440 - ITEC 411
CIS 445 - ITEC 411
ITEC 336 - CIS 211 & COSC 236 (coreq)
ITEC 397 - permission of internship faculty coordinator | ITEC 423 - ITEC 231
ITEC 425 - ITEC 411
ITEC 427 - ITEC 231
ITEC 437 - ITEC 325
ITEC 450 - ITEC 250 & ITEC 325
ITEC 451 - ITEC 315
ITEC 464 - ITEC 231
ITEC 470 - 12 units of ITEC/COSC/CIS
ITEC 495 - senior standing in IT |
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updated 1/2017

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Suggested Course Sequence: CY 2016-17 and later

Year 1 - Freshman

<u>Semester 1</u>		<u>Semester 2</u>	
Course	Units	Course	Units
COSC 111	3	COSC 175	4
MATH 119	4	COMM 131 (Core 5)	3
TSEM 102 (Core 1)	3	ENGL 102 (Core 2)	3
Core or Elective *	3	Core or Elective *	3
Core or Elective *	3	Core or Elective *	3
	16		16

Year 2 - Sophomore

<u>Semester 3</u>		<u>Semester 4</u>	
Course	Units	Course	Units
COSC 236	4	ITEC 231	3
CIS 211	3	ITEC 250	3
MATH 231 (Core or ECON 205	3	ITEC 274	3
Core or Elective *	3	ITEC 345	3
Core or Elective *	3	Core 7 or 8 (at least one must be 4 units)	3-4
	16		15-16

Year 3 - Junior

<u>Semester 5</u>		<u>Semester 6</u>	
Course	Units	Course	Units
ITEC 315	3	ENGL 317 (Core 9)	3
ITEC 325	3	IT Elective (from approved list)	3
CIS 377	3	IT Elective (from approved list)	3
IT Elective (from approved list)	3	Core or Elective *	3
Core 7 or 8 (at least one must be 4 units)	3-4	Core or Elective *	3
	15-16		15

Year 4 - Senior

<u>Semester 7</u>		<u>Semester 8</u>	
Course	Units	Course	Units
ITEC 411	3	ITEC 485	3
COSC 418 (Core 14)	3	CIS 435	3
IT Elective (from approved list)	3	IT Elective (from approved list)	3
Core or Elective *	3	Core or Elective *	3
Core or Elective *	3		
	15		12

Total Units: 121-122

Notes:

* Complete a Core 1, 4, 6, 10, 11, 12, 13 or a general elective

If several general electives are needed, consider completing a Minor in a complimentary discipline such as Business, Healthcare Management, etc.