

Towson University
Computer & Information Sciences
Information Technology
Program Requirements: CY 2010-11 and 2011-12

Required Courses (37 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 315 Data and Information Management	3	Fall & Spring
_____	ITEC 325 System Administration and Maintenance	3	Fall & Spring
_____	CIS 350 Telecommunications	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 440 Systems Development for E-Commerce	3	Fall
_____	CIS 445 Universal Usability	3	Spring
_____	ITEC 336 Legal and Policy Issues in Information Technology	3	Fall
_____	ITEC 345 Scripting Languages	3	Fall & Spring
_____	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
_____	ENGL 317 Writing for Business and Industry (Gen Ed ID / Core 9)	3	Fall & Spring

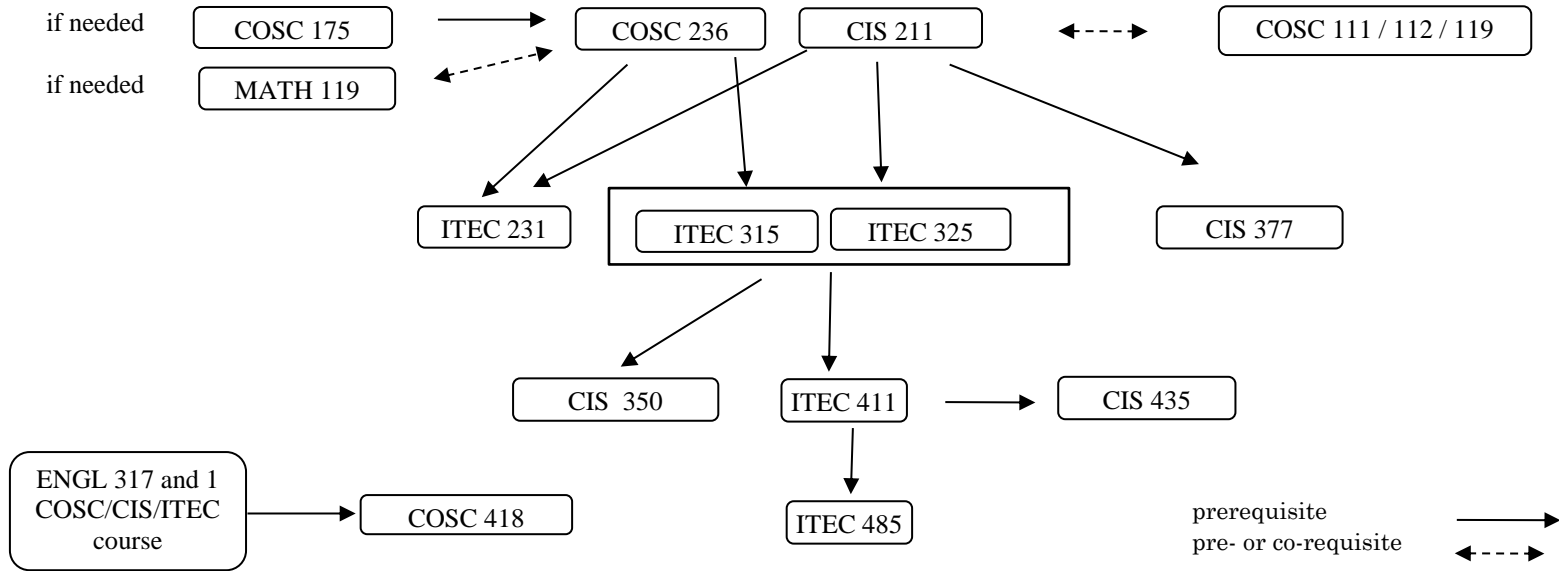
Total Units **55**

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

updated 9/2014

Computer & Information Sciences Information Technology

Prerequisites: CY 2010-11 and 2011-12



- 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 345 - COSC 236
- ITEC 397 - permission of internship faculty coordinator

- 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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Towson University
Computer & Information Sciences
Information Technology
Suggested Course Sequence: CY 2010-11 and 2011-12

Year 1 - Freshman

<u>Semester 1</u>		<u>Semester 2</u>	
Course	Units	Course	Units
COSC 111	3	COSC 175	4
MATH 119	4	ENGL 102 (Gen Ed 1A)	3
General Education or Elective *	3	General Education or Elective *	3
General Education or Elective *	3	General Education or Elective *	3
General Education or Elective *	3	General Education 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	CIS 377	3
General Education or Elective *	3	General Education or Elective *	3
General Education or Elective *	3	General Education or Elective *	3
General Education or Elective *	3	General Education (at least one 4 unit lab science)	3-4
	16		15-16

Year 3 - Junior

<u>Semester 5</u>		<u>Semester 6</u>	
Course	Units	Course	Units
ITEC 315	3	CIS 350	3
ITEC 325	3	IT Elective (from approved list)	3
ENGL 317 (Gen Ed ID)	3	IT Elective (from approved list)	3
IT Elective (from approved list)	3	General Education or Elective *	3
General Education (at least one 4 unit lab science)	3-4	General Education 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
General Education or Elective *	3	General Education or Elective *	3
General Education or Elective *	3		
	15		12

Total Units: 121-122

Notes:

- * Complete a General Education requirement or a general elective
- If several general electives are needed, consider completing a Minor in a complimentary discipline such as Business, Healthcare Management, etc.

updated 9/2014