

# Towson University

## Computer & Information Sciences

### Information Technology

#### Program Requirements: CY 2014-15 and 2015-2016

Required Courses (40 units)		Units	Offered
_____ <a href="#">COSC 111</a>	Information and Technology for Business	3	Fall & Spring
_____ <a href="#">CIS 211</a>	Fundamentals of Information Systems and Technology	3	Fall & Spring
_____ <a href="#">COSC 236</a>	Introduction to Computer Science I	4	Fall & Spring
_____ <a href="#">ITEC 231</a>	Fundamentals of Web Technologies	3	Fall & Spring
_____ <a href="#">ITEC 250</a>	Fundamentals of Computer Networks	3	Fall & Spring
_____ <a href="#">ITEC 274</a>	Fundamentals of System Management	3	Fall & Spring
_____ <a href="#">ITEC 315</a>	Data and Information Management	3	Fall & Spring
_____ <a href="#">ITEC 325</a>	System Administration and Maintenance	3	Fall & Spring
_____ <a href="#">CIS 377</a>	Information Systems Security	3	Fall & Spring
_____ <a href="#">ITEC 411</a>	System Architecture and Integration	3	Fall & Spring
_____ <a href="#">CIS 435</a>	Human Computer Interaction	3	Fall & Spring
_____ <a href="#">ITEC 485</a>	Information Technology Capstone	3	Fall & Spring
_____ <a href="#">COSC 418</a>	Ethics and Societal Concerns of Computer Scientists	3	Fall & Spring

Elective Courses (15 units) [must complete at least 4 upper level electives]		Units	Offered
_____ <a href="#">CIS 212</a>	Introduction to Business Programming <b>OR</b>		Spring
_____ <a href="#">ITEC 217</a>	Computing Hardware and Infrastructure <b>OR</b>		Fall
_____ <a href="#">CIS 265</a>	Visual Basic Programming <b>OR</b>	3-4	Fall & Spring
_____ <a href="#">COSC 237</a>	Introduction to Computer Science II		Fall & Spring
_____ <a href="#">CIS 426</a>	Gaming Design	3	Occasionally
_____ <a href="#">CIS 436</a>	E-Government	3	Spring
_____ <a href="#">CIS 440</a>	Systems Development for E-Commerce	3	Fall
_____ <a href="#">CIS 445</a>	Universal Usability	3	Spring
_____ <a href="#">CIS 468</a>	Applied Data Mining & Visual Analytics	3	Spring
_____ <a href="#">ITEC 336</a>	Legal and Policy Issues in Information Technology	3	Fall
_____ <a href="#">ITEC 345</a>	Scripting Languages	3	Fall & Spring
_____ <a href="#">ITEC 397</a>	Internship in Information Technology	3	Fall, Spring & Summer
_____ <a href="#">ITEC 423</a>	Emerging Internet Technologies	3	Fall & Spring
_____ <a href="#">ITEC 425</a>	Enterprise IT Architecture	3	Spring
_____ <a href="#">ITEC 427</a>	Cloud Computing for Enterprises	3	Spring
_____ <a href="#">ITEC 437</a>	Disaster Recovery and Enterprise Continuity	3	Fall & Spring
_____ <a href="#">ITEC 450</a>	Advanced Networking	3	Fall
_____ <a href="#">ITEC 451</a>	Advanced Data Management and Analysis	3	Spring
_____ <a href="#">ITEC 464</a>	Web Development	3	Fall & Spring
_____ <a href="#">ITEC 470</a>	Special Topics in Information Technology	3	Occasionally
_____ <a href="#">ITEC 495</a>	Independent Study in Information Technology	3	Occasionally

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

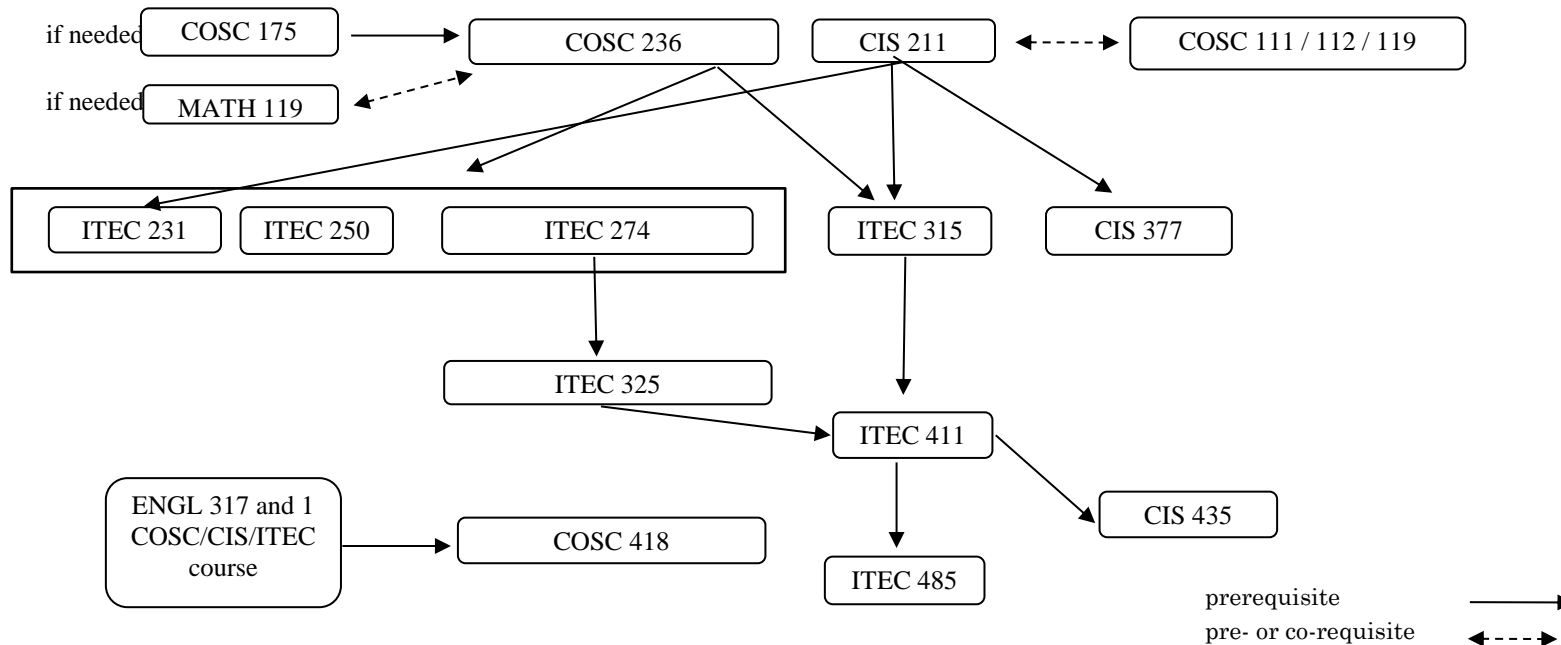
**Total Units**

**64**

**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 2014-15 and 2015-2016**



**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 345 - COSC 236  
 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

updated 1/2017

**Towson University**  
**Computer & Information Sciences**  
**Information Technology**  
**Suggested Course Sequence: CY 2014-15 and 2015-2016**

**Year 1 - Freshman**

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

**Year 2 - Sophomore**

<u>Semester 3</u>		<u>Semester 4</u>	
Course	Units	Course	Units
<a href="#">COSC 236</a>	4	<a href="#">ITEC 231</a>	3
<a href="#">CIS 211</a>	3	<a href="#">ITEC 250</a>	3
<a href="#">MATH 231 (Core 1) or <a href="#">ECON 205</a></a>	3	<a href="#">ITEC 274</a>	3
<a href="#">Core or Elective *</a>	3	<a href="#">Core or Elective *</a>	3
<a href="#">Core or Elective *</a>	3	<a href="#">Core 7 or 8 (at least one must be 4 units)</a>	3-4
	16		15-16

**Year 3 - Junior**

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

**Year 4 - Senior**

<u>Semester 7</u>		<u>Semester 8</u>	
Course	Units	Course	Units
<a href="#">ITEC 411</a>	3	<a href="#">ITEC 485</a>	3
<a href="#">COSC 418 (Core 14)</a>	3	<a href="#">CIS 435</a>	3
<a href="#">IT Elective (from approved list)</a>	3	<a href="#">IT Elective (from approved list)</a>	3
<a href="#">Core or Elective *</a>	3	<a href="#">Core or Elective *</a>	3
<a href="#">Core or Elective *</a>	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.