

Towson University

Computer & Information Sciences

Information Technology

Program Requirements: CY 2012-13 and 2013-14

| Required Courses (40 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 |
| _____ | 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 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 (3 units) | | Units | Offered |
|--|---|-------|---------------|
| _____ | ENGL 317 Writing for Business and Industry (Core 9) | 3 | Fall & Spring |

Total Units

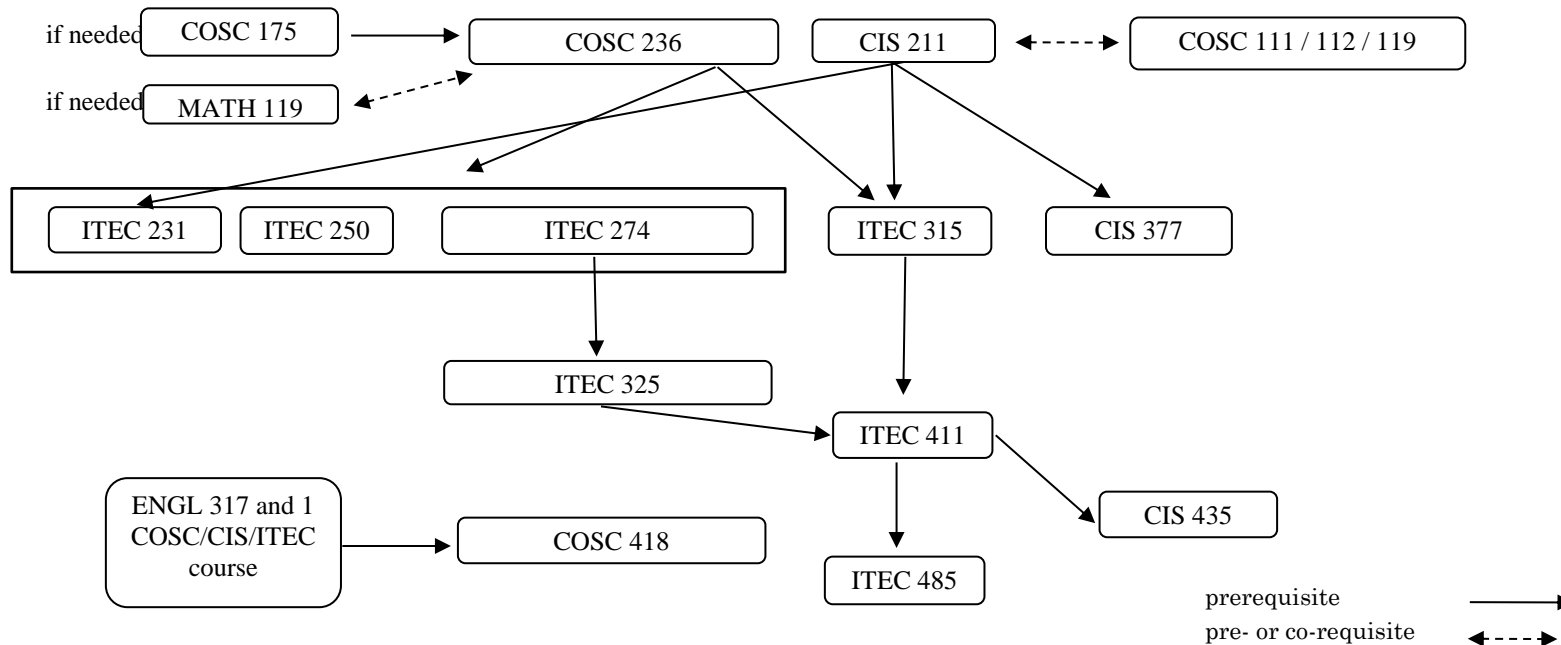
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Note: All courses required for the major MUST be completed with a C (2.0) or better

updated 1/2017

Computer & Information Sciences Information Technology

Prerequisites: CY 2012-13 and 2013-14



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

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Suggested Course Sequence: CY 2012-13 and 2013-14

Year 1 - Freshman

| <u>Semester 1</u> | Units | <u>Semester 2</u> | Units |
|------------------------------------|--------------|------------------------------------|--------------|
| Course | | Course | |
| COSC 111 | 3 | COSC 175 | 4 |
| MATH 119 | 4 | ENGL 102 (Core 2) | 3 |
| TSEM 102 (Core 1) | 3 | Core or Elective * | 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> | Units | <u>Semester 4</u> | Units |
|------------------------------------|--------------|--|--------------|
| Course | | Course | |
| COSC 236 | 4 | ITEC 231 | 3 |
| CIS 211 | 3 | ITEC 250 | 3 |
| Core or Elective * | 3 | ITEC 274 | 3 |
| Core or Elective * | 3 | Core or Elective * | 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> | Units | <u>Semester 6</u> | Units |
|--|--------------|--|--------------|
| Course | | Course | |
| 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> | Units | <u>Semester 8</u> | Units |
|--|--------------|--|--------------|
| Course | | Course | |
| 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, 3, 4, 5, 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.