### BACHELOR OF COMPUTER SCIENCE • FOUR YEAR PROGRAM

<table>
<thead>
<tr>
<th>YEAR</th>
<th>TERM</th>
<th>MAJOR</th>
<th>CORE</th>
<th>TOTAL CR.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 1</td>
<td>FALL</td>
<td>ETCS 105* CAREER DISCOVERY</td>
<td>FCWR 101 FOUNDATIONS OF COLLEGE COMPOSITION</td>
<td>16</td>
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<tr>
<td>SPRING</td>
<td>CSCI 125 COMPUTER PROGRAMMING I</td>
<td>MATH 170 CALCULUS I Pre-req: Placement Test, MATH 141 or TMAT 155</td>
<td>FCIQ 101 FOUNDATIONS OF INQUIRY</td>
<td>17</td>
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<tr>
<td>YEAR 2</td>
<td>FALL</td>
<td>CSCI 185 COMPUTER PROGRAMMING II Pre-req: CSCI 125</td>
<td>CSCI 318 PROGRAMMING LANGUAGE CONCEPTS Pre-req: CSCI 260</td>
<td>15</td>
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<tr>
<td>SPRING</td>
<td>CSCI 260 DATA STRUCTURES Pre-req: MATH 161 or MATH 170 and CSCI 185 or CSCI 210</td>
<td>CSCI 312 THEORY of COMPUTATION Pre-req: CSCI 235 or MATH 180</td>
<td>ICLT 3XX LITERATURE CHOICE**</td>
<td>15</td>
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<tr>
<td>YEAR 3</td>
<td>FALL</td>
<td>CSCI 330 OPERATING SYSTEMS Pre-req: CSCI 260 and CSCI 185 or CSCI 210</td>
<td>CSCI 310 LINEAR ALGEBRA Pre-req: MATH 180</td>
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<td>SPRING</td>
<td>CSCI 345 COMPUTER NETWORKS Pre-req: CSCI 330</td>
<td>CSCI 345 COMPUTER SCIENCE CONCENTRATION *Department Approval</td>
<td>IBS 3XX BEHAVIORAL SCIENCE CHOICE**</td>
<td>15</td>
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<td>YEAR 4</td>
<td>FALL</td>
<td>CSCI 380 INTRO to SOFTWARE ENGINEERING Pre-req: CSCI 260</td>
<td>CSCI 380 INTRO to SOFTWARE ENGINEERING Pre-req: CSCI 380</td>
<td>15</td>
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<tr>
<td>SPRING</td>
<td>CSCI 455 SENIOR PROJECT Pre-req: Senior Status *Department Approval</td>
<td>CSCI 455 SENIOR PROJECT Pre-req: Senior Status *Department Approval</td>
<td>ICPS 3XX PHILOSOPHY CHOICE**</td>
<td>15</td>
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**Credits: 121-123**

*All entering first-year students and transfer students with fewer than 31 earned credits are required to complete ETCS-105. (Rev. 07/14)

**Seminar pre-requisites include: FCWR 101, FCWR 151, FCIQ 101, FCSC 101, and FCSP 105.

**Computer Science Concentrations: Select one concentration and complete 12 credits**

**Network Security**
- CSCI 352 Intro to Network and Internet Security
- CSCI 357 CISCO Academy Level I
- CSCI 440 Network Security & Perimeter Protection
- CSCI 445 Operating System Security
- CSCI 460 Special Topics I
- CSCI 470 Special Topics II

**General Option**
- Choose four CSCI/ITEC 300-400 level courses

**Option I**
- PHYS 170 General Physics I
- PHYS 180 General Physics II
- Life Science Elective: Biology or Chemistry (3 crd)

**Option II**
- CHEM 110 General Chemistry I
- CHEM 150 General Chemistry II
- Physics Elective (3 crd)

**Option III**
- BIOL 110 General Biology I
- BIOL 150 General Biology II
- Physics Elective (3 crd)

**Big Data Management and Analytics**
- CSCI 372 Big Data Analytics (required*)
- CSCI 365 Information Retrieval
- CSCI 401 Database Interfaces and Programming
- CSCI 405 Distributed Database Systems
- CSCI 415 Introduction to Data Mining

**Natural Science Options: Choose one**
- PHYS 170 General Physics I
- PHYS 180 General Physics II
- Life Science Elective: Biology or Chemistry (3 crd)
- CHEM 110 General Chemistry I
- CHEM 150 General Chemistry II
- Physics Elective (3 crd)
- BIOL 110 General Biology I
- BIOL 150 General Biology II
- Physics Elective (3 crd)

*Must take CSCI 300 as CS elective to meet pre-req for CSCI 372