**Bachelor of Applied Science in Information Technology**

**This is a GATED PROGRAM** *Updated 5/7/2019*

**Catalog Year: 2018-2019** Total Degree Credit Hours: 121

**General Education Requirements** (See Degreeworks for Prerequisites)

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| **A-1** | **ENGL 1101** Composition I | 3 |  |
| **ENGL 1102** Composition II | 3 |  |
| **A-2** | **MATH 1113** Pre-Calculus OR  **MATH 1112** College Trigonometry | 3 |  |

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| **Area A: Essential Skills (9 credit hours)**  All Area A courses must be completed within the first 30 credit hours with a grade of C or higher. |

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| **B-1** | **ECON 1000** Contemporary Economic Issues | 2 |  |
| **B-2** | **COM 1100** Human Communication | 3 |  |

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| **Area B: Institutional Options (5 credit hours)**  COM 1100 is essential for IT majors. |

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| **C-1** | **ENGL 2000-level** Literature | 3 |  |
| **C-2** | **ART/DANC/MUSI/TPS 1107**  Arts and Culture of the World | 3 |  |

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| **Area C: Humanities, Fine Arts, and Ethics (6 cr hrs)**  Choose one course from each area. |

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| **D-1** | **STAT 1401** Elementary Statistics | 3 |  |
| **D-2** | **BIOL 1107/L, BIOL 1108/L, CHEM 1211/L, CHEM 1212/L, PHYS 1111/L, PHYS 1112/L, PHYS 2211/L, PHYS 2212/L, SCI 1101,**  **GEOG 1112, GEOG 1113** | 8 |  |

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| **Area D: Science, Math, and Technology (11-12 cr hrs)**  Information Technology majors must complete two 4-credit hour science courses. “L” denotes the corresponding lab course. |

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| **E-1** | **POLS 1101** American Government | 3 |  |
| **E-2** | **HIST 2111 or 2112** US History | 3 |  |
| **E-3** | **HIST 1100/1111/1112** World History | 3 |  |
| **E-4** | **CRJU/GEOG/PSYC/SOCI/STS 1101 or**  **ANTH 1102 or ECON 2100** | 3 |  |

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| **Area E: Social Sciences (12 credit hours)**  Choose one course from each area for E-2, E-3, & E-4. |

**Area F Lower Division Major Requirements**

Prerequisites

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| **CSE 1321/L** Programming & Problem Solving I | Co-req w/ MATH 1112, 1113, 1190 or CSE 1300 | 4 |  |
| **IT 1323/L**  Advanced Programming Principles | ‘B’ or better in CSE 1321/L | 4 |  |
| **MATH 2345** Discrete Mathematics *OR*  **CSE 2300** Discrete Structures | MATH 1112/1113/1190 | 3 |  |
| MATH 1113 & CSE 1321/L |
| **Technical Block – 7 Credits** |  | 7 |  |

CSE 1321 and CSE 1321L must have a minimum grade of ‘B.’

Upon completing CSE 1321 & CSE 1321L with a minimum grade of ‘B,’ students should request to have their major changed to the fully admitted Information Technology major.

Prerequisites

**Upper Division Major Courses**

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| **CSE 3153** Database Systems | IT 1323/L | 3 |  |
| **CSE 3801** Professional Practices and Ethics | IT 1323/L | 2 |  |
| **IT 3123** Hardware/Software Concepts | CSE 1321/L & (IT 1323/L or IT 1113) & (CSE 2300\* or MATH 2345\*) | 3 |  |
| **IT 3203** Intro to Web Development | CSE 1321/L & (IT 1323/L or IT 1113) | 3 |  |
| **IT 3223** Software Acquisition & Project Management | CSE 1321/L | 3 |  |
| **IT 3423** Operating Systems Concepts & Administration | IT 3123 | 3 |  |
| **IT 3883** Advanced Applications Development | IT 1323/L & (CSE 3153\* or CS 3410\*) | 3 |  |
| **IT 4323** Data Communications & Networks | IT 3123 | 3 |  |
| **IT 4823** Information Security Administration | CSE 3153 & IT 3123 & (CSE 2300 or MATH 2345) | 3 |  |
| **IT 4983** IT Capstone | IT 3423, IT 3223, IT 3203 & IT 4323\*, IT 4823\* | 3 |  |
| **IT 4683** Management of IT & HCI | CSE 3153 | 3 |  |
| **IT 4723** IT Policy & Law | IT 3123 & IT 3223 | 3 |  |

All major courses must have a minimum grade of ‘C,’ except for CSE 1321/L, which must have a minimum grade of ‘B.’

\* - can be done concurrently with course

**Technical Block** (21 Credit Hours)

CIS/CIST courses from the AAS degree

Students must have a minimum grade of C on all Lower Division, Upper Division, Directed Electives and any other prerequisite’s.

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Prerequisites

**Directed Electives** (7 Credit Hours)

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At least 7 credit hours 3000/4000 level IT courses, not required as Upper Division Major Courses.