

Computer Programming

Associate of Applied Science Degree

CP23

Curriculum

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| General Education Core | 15 |
| Area I: Language Arts/Communication | |
| ENGL 1101 Composition and Rhetoric (3) | 3 |
| Area II: Social/Behavioral Sciences <i>(Choose ONE course)</i> | |
| ECON 1101 Principles of Economics (3) | 3 |
| ECON 2105 Principles of Macroeconomics (3) | 3 |
| ECON 2106 Principles of Microeconomics (3) | 3 |
| HIST 1111 World History I (3) | 3 |
| HIST 1112 World History II (3) | 3 |
| HIST 2111 American History I (3) | 3 |
| HIST 2112 American History II (3) | 3 |
| POLS 1101 American Government (3) | 3 |
| PSYC 1101 Introduction to Psychology (3) | 3 |
| SOC1 1101 Introduction to Sociology (3) | 3 |
| Area III: Natural Sciences / Mathematics <i>(Choose ONE course)</i> | |
| MATH 1101 Mathematical Modeling (3) | 3 |
| MATH 1103 Quantitative Skill and Reasoning (3) | 3 |
| MATH 1111 College Algebra (3) | 3 |
| Area IV: Humanities/Fine Arts <i>(Choose ONE course)</i> | |
| ARTS 1101 Art Appreciation (3) | 3 |
| ENGL 2130 American Literature (3) | 3 |
| HUMN 1101 Introduction to Humanities (3) | 3 |
| MUSC 1101 Music Appreciation (3) | 3 |
| RELG 1101 Introduction to World Religions (3) | 3 |
| Elective: General Education <i>(Choose ONE course)</i> | |
| Choose one course from Area I, II, III, or IV listed above | 3 |
| OR | |
| BIOL 1111 Biology I (3) + BIOL 1111L Biology I Lab (1) | |
| BIOL 1112 Biology II (3) + BIOL 1112L Biology II Lab (1) | |
| CHEM 1211 Chemistry I (3) + CHEM 1211L Chemistry I Lab (1) | |
| CHEM 1212 Chemistry II (3) + CHEM 1212L Chemistry II Lab (1) | |
| MATH 1127 Introduction to Statistics (3) | |
| MATH 1131 Calculus I (4) | |
| MATH 1132 Calculus II (4) | |
| PHYS 1110 Conceptual Physics (3) + PHYS 1110L Conceptual Physics Lab (1) | |
| PHYS 1111 Introductory Physics I (3) + PHYS 1111L Introductory Physics I Lab (1) | |
| PHYS 1112 Introductory Physics II (3) + PHYS 1112L Introductory Physics II Lab (1) | |
| ENGL 1102 Literature and Composition (3) | |
| SPCH 1101 Public Speaking (3) | |

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| Occupational Courses | 50 |
| Required Courses: | 24 |
| COMP 1000 Introduction to Computers (3) | |
| CIST 1001 Computer Concepts (4) | |
| CIST 1210 Introduction to Oracle Databases (4) | |
| CIST 1305 Program Design and Development (3) | |
| CIST 1510 Web Development I (3) | |
| CIST 2921 IT Analysis, Design, and Project Management (4) | |
| CIST 1601 Information Security Fundamentals (3) | |
| Occupational Electives: <i>(Choose ONE course)</i> | 3 |
| ACCT 1100 Financial Accounting I (4) | |
| BUSN 1300 Introduction to Business (3) | |
| MGMT 1120 Introduction to Business (3) | |
| Occupational Elective: <i>(Choose ONE course from the following or an additional programming course)</i> | 3 |
| CIST 1130 Operating Systems Concepts (3) | |
| CIST 1401 Computer Networking Fundamentals (4) | |
| CIST 2212 Oracle Database Administration I (4) | |
| CIST 2127 Comprehensive Word Processing Techniques (3) | |
| CIST 2128 Comprehensive Spreadsheet Techniques (3) | |
| CIST 2129 Comprehensive Database Techniques (4) | |
| Programming Language Course Electives | 20 |
| <i>(Choose FIVE courses from the following (at least two of which must be CIST23x2 or CIST23x3))</i> | |
| CIST 2311 Visual Basic I (4) | |
| CIST 2312 Visual Basic II (4) | |
| CIST 2341 C# Programming I (4) | |
| CIST 2342 C# Programming II (4) | |
| CIST 2371 Java Programming I (4) | |
| CIST 2372 Java Programming II (4) | |
| CIST 2381 Mobile Application Development I (4) | |
| CIST 2382 Mobile Application Development II (4) | |
| CIST 2383 User Experience (4) | |
| Total Credit Hour (minimum): | 65 |