

COMPUTER INFORMATION SYSTEMS DEGREE – M021

Associate of Applied Science Degree (AAS)

CATALOG DESCRIPTION OF PROGRAM:

The Computer Information Systems Degree Program at BCCC emphasizes business computer program design and development. Practical experience is gained in networking, databases, and programming applications utilizing various system environments such as UNIX, NOVELL, Microsoft Windows, and other state-of-the-art multi-user/microcomputer-based operating systems. CIS approved electives offer students the flexibility to acquire additional training within an area of personal interest. Many of the program's graduates pursue advanced studies at four-year colleges and universities while others move directly into employment with banks, financial companies, government, and other businesses. The Computer Information Systems Program is accredited by the Association of Collegiate Business Schools and Programs (ACBSP).

| COURSE | CURRENT SEQUENCE | CREDITS | PREREQUISITES | SEMESTER | GRADE |
|--------------------------------|---|-----------|---|----------|-------|
| 1st Semester | | | | | |
| PRE 100 | Preparation for Academic Achievement | 1 | None | | |
| BCAP 104 | Introduction to Operating Systems: DOS/Windows | 3 | None | | |
| CISS 105 | Introduction to UNIX: The Operating System | 3 | Completion of all required dev. courses | | |
| CISS 109 | Principles of Computer Information Systems | 3 | Completion of all required dev. courses | | |
| CISS 116 | Structured Design | 3 | Completion of all required dev. courses | | |
| ENG 101 | English Writing | 3 | ENG 82 or RENG 92 | | |
| Semester Credits | | 16 | | | |
| 2nd Semester | | | | | |
| BCAP 136 | Database Management Systems | 3 | None | | |
| CISS 231 | JAVA Programming for Business Applications | 3 | CISS 116 | | |
| MAT 125 | Finite Mathematics | 3 | MAT 82 or MAT 92; ENG 82 or RENG 92 | | |
| SP 101 | Fundamentals of Speech Communication | 3 | ENG 82 or RENG 92 | | |
| HLF-Elective | Health and Life Fitness | 2 | None | | |
| Semester Credits | | 14 | | | |
| 3rd Semester | | | | | |
| CISS 201 | Systems Analysis and Design | 3 | CISS 109 | | |
| CISS 228 | Object Oriented Programming for Business Applications C++ | 3 | CISS 116 and BCAP 104 | | |
| BCAP 126 | Comprehensive Spreadsheet | 3 | None | | |
| MAT 107 | Modern Elementary Statistics | 3 | MAT 86 or MAT 91 and RENG 92 | | |
| CISS | CIS – Approved Elective | 3 | Depends on course chosen | | |
| Semester Credits | | 15 | | | |
| 4th Semester | | | | | |
| ECO 201 | The American Economy I: Macroeconomic Theory | 3 | ENG 82 or RENG 92 | | |
| ACCT 221 | Principles of Financial Accounting | 3 | MAT 81 or MAT 91 | | |
| SBS-Elective | Social and Behavioral Sciences | 3 | Depends on course chosen | | |
| BPS-Elective | Biological and Physical Sciences | 3 | Depends on course chosen | | |
| CISS | CIS – Approved Elective | 3 | Depends on course chosen | | |
| Semester Credits | | 15 | | | |
| PROGRAM TOTAL | | 60 | | | |

| CIS APPROVED ELECTIVES | | |
|------------------------|--|---|
| BCAP 270 | Introduction to Help Desk | 3 |
| CSC 108 | Programming in C | 3 |
| CISS 118 | Programming with Visual Basic | 3 |
| CISS 231 | Java Programming for Business Applications | 3 |
| ITDB 246 | Oracle Database Administration | 3 |
| ITDB 247 | Oracle Database Developer & Programming | 3 |
| ITNT 235 | Networking with TCP/IP | 3 |
| ITSA 125 | Security Fundamentals, Principles and Ethics | 3 |
| ITSA 233 | Ethical Hacking | 2 |
| ITSA 242 | Computer Forensics and Investigation | 3 |
| ITSA 245 | Cyber Security Implementation | 3 |

Advisor Signature: _____

Date: _____

Student Signature: _____

Date: _____

Pre-Requisites for Students in Developmental Courses

| COURSE | CURRENT SEQUENCE | CREDITS | PREREQUISITES | SEMESTER | GRADE |
|----------------|---|---------|--|----------|-------|
| RENG 90 | Intensive Program Writing | 4 hrs. | Placement Test | | |
| RENG 91 | Composition Skills I | 4 hrs. | Placement Test or RENG 90 | | |
| RENG 92 | Composition Skills II | 4 hrs. | Placement Test or RENG 91 | | |
| MAT 80 | Arithmetic | 3 hrs. | Placement Test | | |
| MAT 86/ | Integrated Pre-Algebra and Introductory Algebra | 5 hrs. | Placement Test or MAT 80 Students who complete MAT 80 with an A or B within a one year period; Students who recently (within one year) failed and need to repeat MAT 91; students whose ACUPLACER placement score on Elementary Algebra falls within the range 52-62. | | |
| MAT 87M | Integrated Elementary and Intermediate Algebra | | | | |
| MAT 91 | Elementary Algebra | 4 hrs. | Placement Test or MAT 80 | | |
| MAT 92 | Intermediate Algebra | 4 hrs. | Placement Test or MAT 91 | | |