# NorthWest Arkansas Community College

**2014 Associate of Applied Science Degree Requirements in Computer Information Systems**
**Major Emphasis: Computer Programming Option***

CHECK THE CATALOG FOR PREREQUISITES BEFORE ENROLLING IN A CLASS

| POSSIBLE PLACEMENT REQUIREMENTS (These hours will not transfer to a 4 year institution) | | | Placement Test | Score |
|---|---|---|---|---|
| MATH | 0013 | PreAlgebra | | |
| MATH | 0053 | Beginning Algebra | | |
| MATH | 0103 | Intermediate Algebra | | |
| READ | 0033 | College Reading | | |
| ENGL | 0063 | Intermediate Writing | | |

**RECOMMENDED SEQUENCE**

| | | | DATE COMPLETED | PREREQUISITE (see catalog) | GRADE |
|---|---|---|---|---|---|
| **GENERAL EDUCATION REQUIRED COURSES (16 Hours)** | | | | | |
| CISQ | 1103 | Introduction to Computer Information **OR** Computer Proficiency Exam | | | |
| ENGL | 1013 | English Composition I | | | |
| ENGL | 1023 | English Composition II **OR** | | | |
| ENGL | 2013 | Technical Writing | | | |
| MATH | 1204 | College Algebra | | | |
| XXXX | XXX3 | Social/Behavioral Science Elective | | | |

*See Options Below

| | | | | | |
|---|---|---|---|---|---|
| **GENERAL BUSINESS REQUIRED COURSES (12 Hours)** | | | | | |
| ACCT | 2013 | Principles of Accounting I | | | |
| BLAW | 2013 | Legal Environment of Business I | | | |
| ECON | 2013 | Macroeconomics **OR** | | | |
| ECON | 2023 | Microeconomics | | | |
| OSIM | 1103 | Business Communications | | | |

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|---|---|---|---|---|---|
| **GENERAL BUSINESS ELECTIVE COURSES (9 Hours)** | | | | | |
| ACCT | 2023 | Principles of Accounting II | | | |
| CISM | 1203 | Internet Resourcing (Recommended for Web Development) | | | |
| CISM | 1303 | Operating Systems (Windows) | | | |
| CISM | 1313 | Operating Systems (UNIX) | | | |
| CISM | 1503 | Spreadsheet Analysis (EXCEL) | | | |
| CISM | 2503 | Advanced Spreadsheet (EXCEL) | | | |
| NTWK | 2013 | Networking and Information Systems | | | |

**COMPUTER INFORMATION SYSTEMS REQUIRED COURSES (24 Hours)**

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|---|---|---|---|---|---|
| **Programming Core (12 Hours)** | | | | | |
| CISM | 1403 | Database Management (ACCESS) | | | |
| PROG | 1003 | Introduction to Programming Logic | | | |
| PROG | 1103 | VISUAL BASIC Programming | | | |
| BADM | 2703 | Internship Experience | | | |

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|---|---|---|---|---|---|
| **Track A) Application Development - (12 Hours from)** | | | | | |
| PROG | 1203 | C++ Programming | | | |
| PROG | 1403 | JAVA Programming | | | |
| PROG | 1503 | COBOL Programming | | | |
| PROG | 2303 | Web Server-Side Programming | | | |
| PROG | 28XX | Advanced Programming Topics | | | |
| | | **OR** | | | |
| **Track B) Web Development (12 Hours from)** | | | | | |
| ART | 1313 | Design I | | | |
| CISM | 1243 | Introduction to Web Animation | | | |
| CISM | 2123 | Web Page Design | | | |
| CISM | 1223 | Photoshop | | | |
| CISM | 2133 | Intermediate Web Page Desgin | | | |

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|---|---|---|---|---|---|
| CISM | 2213 | Advanced Web Page Design | _____ | _____ | _____ |
| PROG | 1303 | Web Client-Side Programming | _____ | _____ | _____ |
| PROG | 2303 | Web Server-Side Programming | _____ | _____ | _____ |
| NTWK | 2243 | Securing E-Commerce | _____ | _____ | _____ |
| CISM | 2223 | Advanced Photoshop | _____ | _____ | _____ |
| | | **OR** | | | |

**Track C) Database Development (12 Hours from)**

| | | | | | |
|---|---|---|---|---|---|
| CISM | 1423 | Database Concepts | _____ | _____ | _____ |
| CISM | 1433 | SQL Concepts | _____ | _____ | _____ |
| CISM | 2403 | Advanced DataBase Management | _____ | _____ | _____ |
| CISM | 2413 | Database Integration with VBA | _____ | _____ | _____ |
| PROG | 1303 | Web Client-Side Programming | _____ | _____ | _____ |
| | | **OR** | | | |

**Track D) Mobile Applications Development (12 Hours)**

| | | | | | |
|---|---|---|---|---|---|
| PROG | 2503 | iOS Application Development | _____ | _____ | _____ |
| PROG | 2513 | iOS Advanced Application Development | _____ | _____ | _____ |
| PROG | 2603 | Android Application Development | _____ | _____ | _____ |
| PROG | 2613 | Advanced Android Application Development | _____ | _____ | _____ |

61 Hours Total

(Not all courses are available each semester, consult catalog to aid in planning)
*Social/Behavioral Science Elective options: ANTH 1023, CMJS 2013, ECON 2013, ECON 2023, GEOG 1123, GEOG1003, HIST 1003, HIST1013, HIST1043, HIST 2003, HIST 2013, PHIL2003, PHIL203.3, PLSC2803, PSYC2003, PSYC2103, SOCI2013, SOCI2033, SOCI2043.
15 Hours must be earned at NWACC to Graduate.

My advisor has explained this degree plan and I understand that I am responsible for following the above guidelines as defined in the college catalog for course prerequisites.

Advisor's Signature: _____ Date:_____

Student's Signature: _____ Date: _____