

Student Name:

Student ID #:

60-66 hrs

&gt;&gt;&gt;Check the college catalog for possible prerequisites before enrolling in classes&gt;&gt;&gt;

**General Education Required Courses (15 Hours)**

- CISQ 1103 Intro to Computer Information OR Computer Proficiency Exam
- ENGL 1013 English Composition I
- ENGL 1023 English Composition II
- MATH 1203 College Algebra
- XXXX XXX3 Social/Behavioral Science Elective\*

**General Business Required Courses (6 Hours)**

- ACCT 2013 Principles of Accounting I
- BLAW 2013 Legal Environment of Business I

**COMPUTER PROGRAMMING OPTION (39 hours)**

Required General Business Courses (6 hours)

- ECON 2013 Macroeconomics OR
- ECON 2023 Microeconomics
- OSIM 1103 Business Communications

**General Business Elective Courses (9 Hours)**

- ACCT 2023 Principles of Accounting II
- CISM 1223 Photoshop—(Required for Track B only)
- CISM 1313 Operating Systems (UNIX)
- CISM 1503 Spreadsheet Analysis (EXCEL)
- CISM 2503 Advanced Spreadsheet (EXCEL)
- NTWK 2014 Networking and Information Systems

**Computer Information Systems Required Courses (24 Hours)****Programming Core (12 Hours):**

- CISM 1433 SQL Concepts
- PROG 1003 Programming Logic I, OR
- PROG 1003H Programming Logic I-Honors
- PROG 1403 Programming Logic II, OR
- PROG 1403H Programming Logic II-Honors
- BADM 2703 Internship Experience, OR
- PROG 2703 Capstone: Software Engineering Project

**POSSIBLE PLACEMENT REQUIREMENTS**

These courses are for developing college level skills.

NWACC strongly recommends that students enroll in English and math preparatory courses within the first two semesters.

- MATH 0012 Foundations of Quantitative Reasoning
- MATH 0013 Pre-algebra
- MATH 0022 Foundations of Beginning Algebra
- MATH 0053 Beginning Algebra
- MATH 0103 Intermediate Algebra
- MATH 0112 Foundations of College Algebra
- MATH 0214 Foundations of Algebra-STEM
- ENGA 0033 College Reading\*\*
- ENGA 0063 Intermediate Writing
- ENGA 0093 Reading and Writing Studio
- ENGA 0091 Academic Literacy Lab\*\*
- ENGC 0033 College Reading & Vocabulary\*\*
- ENGC 0131 Comp Review

These hours will not fulfill any degree requirements at NWACC. These courses will not transfer to a four year institution

**Choose One of the Following Tracks:****Track A) Application Development (Choose 12 Hours total from groups 1 & 2):**

Group 1—6 Hours Required:

- PROG 1103 GUI Programming
- PROG 2413 Programming Logic III

**Group 2—6 Hours Required:(Note: If transferring to the UA Engineering Program, you must take PROG 1204 and PROG 2204).**

- PROG 1204 Programming Foundations I
- PROG 1303 Web Client-Side Programming
- PROG 1603 Swift Programming
- PROG 2204 Programming Foundations II
- PROG 2303 Web Server-Side Programming
- PROG 2603 Mobile App Dev.
- PROG 2613 Adv. Mobile App Development

**Track B) Web Development (Choose 12 Hours):**

- CISM 2123 Web Page Design I
- CISM 2213 Web Page Design II
- CISM 2223 Advanced Photoshop
- PROG 1303 Web Client-Side Programming
- PROG 2303 Web Server-Side Programming
- NTWK 2243 Securing Electronic-Commerce

**Track C) Mobile Applications Development (Choose 12 Hours):**

- PROG 1103 GUI Programming
- PROG 1603 Swift Programming
- PROG 2603 Mobile App Development
- PROG 2613 Adv. Mobile App Development

**INFO MGMT & APPLICATIONS OPTION (39 Hours)**

- BADM 2703 Internship Experience—Required Course

**Required General Business Courses (6 hours)**

- ECON 2013 Macroeconomics OR
- ECON 2023 Microeconomics
- OSIM 1103 Business Communications

**General Business Electives (6 hours)**

- ACCT 2023 Principles of Accounting II OR
- ACCT 2043 Computerized Accounting
- OSIM 1013 Administrative Office Management

**Computer Support Courses****Choose 12 Hours:**

- CISM 2123 Web Page Design I
- CISM 2213 Web Page Design II
- CISM 2503 Advanced Spreadsheet (EXCEL)
- OSIM 2503 Computer Support & Project Management
- PROG 1003 Programming Logic I
- PROG 1103 GUI Programming
- NTWK 2014 Networking and Information Systems
- NTWK 2053 Microcomputer Hardware Support

**12 hours below:**

- CISM 1403 Database Management (ACCESS)
- CISM 1503 Spreadsheet Analysis (EXCEL)
- OSIM 2103 Business Presentations (PowerPoint)
- OSIM 2703 Business Application Integration

**Networking Required Courses (45 Hours)****Networking Core (36 Hours):**

- CISM 1313 Operating Systems (UNIX)
- NTWK 2014 Networking and Information Sys. (CCNA 1)
- NTWK 2023 Network Administration - Windows
- NTWK 2053 Microcomputer Hardware Support (A+)
- NTWK 2084 Network Hardware Sup. (CCNA 2)
- NTWK 2113 Network Security (COMP TIA Security +)
- NTWK 2203 Command Line Scripting
- NTWK 2214 Switching Basics & Inter. Routing (CCNA 3)
- OSIM 2503 Computer Support and Project Mgmt
- PROG 1003 Programming Logic I
- BADM 2703 Internship Experience

**Networking Electives (9 Hours):**

- CISM 1433-SQL Concepts
- NTWK 2073 Network Administration - UNIX
- NTWK 2103 Web Server Administration
- NTWK 2153 Microcomputer Software
- NTWK 2224 WAN Implementation & Support (CCNA 4)
- NTWK 2243 Secure Electronic-Commerce
- NTWK 2253 Computer Forensics
- NTWK 2263 Network Security Support (CCNA Security)
- OSIM 1103 Business Communications

**Notes:**

Honors and Global Studies courses will meet degree requirements where applicable.

\*Social/Behavioral Science Elective Options:  
ANTH 1023, CMJS 2013, CMJS 2363, ECON 2013, ECON 2023, GEOG 1003, GEOG 1123, HIST 1003, HIST 1013, HIST 1033, HIST 1043, HIST 2003, HIST 2013, PHIL 2003, PHIL 2033, PLSC 2003, PLSC 2203, PLSC 2803, PSYC 2003, PSYC 2103, SOCI 2013, SOCI 2033, SOCI 2043.

15 hours must be earned at NWACC to graduate.