



Degree Pathway – A.S. Computer Programming and Analysis [2013] – 2 Year Plan

The following is a recommended sequence of courses for completing this program. Developmental courses and prerequisite courses may not all be listed on the pathway below. Developmental courses and prerequisite course requirements, credit load and/or course availability may affect a student’s individual progress. The pathway below is specifically intended for full-time students who begin their course work with the Fall semester. Students should always consult their online degree planner for the catalog year that they entered the college and meet with their program manager for advising each semester to better understand typical course availability and individual program planning as this plan is subject to change.

Required Courses and Recommended Sequence

Semester One - Fall

ENC 1101 Written Communication I	3 credits
Gen Ed Area II Mathematics (<i>excluding MGF 1106 and MGF 1107</i>)	3 credits
CGS 1000 Computer Information Systems	3 credits
CTS 1150C Microcomputer Hardware and Maintenance	3 credits
GEB 1011 Introduction to Business	3 credits
Total Credit Hours	15 credits

Semester Two - Spring

CET 1600 Networking Fundamentals	3 credits
Gen Ed Area III Social Science	3 credits
COP 2842 Developing Websites Using PHP/MYSQL	3 credits
AST 1002 Descriptive Astronomy <i>or</i> BSC 1005C Diversity of Life <i>or</i> CHM 1020C The Chemistry of Everyday Life <i>or</i> ESC 1000C Earth and Space Science <i>or</i> EVR 1001 Introduction to Environmental Science <i>Gen Ed Area V Natural Science (one from above is recommended)</i>	3 credits
COP 2510 Programming Concepts	3 credits
Total Credit Hours	15 credits

Semester Three - Fall

CTS 2390 Installing and Configuring Windows Server	3 credits
COP 2710 Visual Basic Programming	3 credits
CGS 1543 Database Design and Implementation	3 credits
COP 2224C C++ Programming I	3 credits
CIS 2931 Current Issues in Computing <i>or</i> CGS 1949 Internship in Computer Science	3 credits
Total Credit Hours	15 credits

Semester Four - Spring

CTS 2433 SQL Implementation	3 credits
COP 2228C C++ Programming II	3 credits
Gen Ed Area IV Humanities	3 credits
CIS 2321 Introduction to Systems Analysis and Design	3 credits

CGS 2820C Web Page Development	3 credits
Total Credit Hours	15 credits
Total Degree Credit Hours	60 Credits