

Required Courses and Recommended Sequence:

The following is a recommended sequence of courses for completing this program. Developmental courses and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Course availability within the program sequences 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 contact their program manager to better understand typical course availability and individual program planning.

Degree Pathway – Computer Programming and Analysis [2013] – 2 Year Plan ***(with an emphasis on C++ Programming)***

Semester One

ENC 1101 Written Communication I	3 credits
Gen Ed* Area II Math – (excluding MGF 1106 & MGF 1107)	3 credits
CGS 1000 Computer Information Systems	3 credits
CTS 1150C Microcomputer Hardware and Maintenance	3 credits
GEB 1011 Introduction to Business	3 credits
	15 credits – semester one

Semester Two

CET 1600 Networking Fundamentals	3 credits
Gen Ed* Area III – Social Sciences	3 credits
COP 2842 Developing Websites Using PHP/MYSQL	3 credits
Gen Ed* Area V – Natural Sciences	3 credits
COP 2510 Programming Concepts	3 credits
	15 credits – semester two

Semester Three

CTS 2390 Installing and Configuring Windows Server	3 credits
COP 2170 Visual Basic Programming	3 credits
CGS 1543 Database Design and Implementation	3 credits
COP 2224C C++ Programming I	3 credits
CIS 2931 Currents Issues in Computing or CGS 1949 Co-op work experience	3 credits
	15 credits – semester three

Semester Four

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
	15 credits – semester four
	Total Hours – 60 Credits