

SCHOOL OF STEM SYLLABUS



TERM: INSTRUCTOR:

COURSE CODE: CSC-115 OFFICE HOURS:

COURSE TITLE: Programming in C++

OFFICE LOCATION:

DAY(S) AND TIME(S): EMAIL:

LOCATION: PHONE:

COURSE PREREQUISITE: MAT-100, MAT-106, MAT-107 OR MAT-110

CREDITS: 3

COURSE DESCRIPTION:

This course introduces the student to object-oriented programming through a study of the concepts of program specification and design, algorithm development, and coding and testing using a modern software development environment. Topics covered include fundamentals of algorithms, problem solving, programming concepts, loops, functions, decision statements, control structures, arrays, and strings. Throughout the semester, problem solving skills will be stressed and applied to solving computing problems. Daily laboratory experiments will provide hands-on experience in topics covered in this course.

STUDENT LEARNING OUTCOMES:

Upon completion of this course, students will be able to:

- 1. Understand and use the basic programming constructs of C/C++
- 2. Manipulate various C/C++ datatypes, such as arrays, strings, and pointers
- 3. Isolate and fix common errors in C++ programs
- 4. Use memory appropriately, including proper allocation/deallocation procedures
- 5. Apply object-oriented approaches to software problems in C++
- 6. Write small-scale C++ programs using the above skills

TEXTBOOK AND SUPPLEMENTAL MATERIALS:

Starting out with C++, 9th Edition, by Gadis

STEM STUDENT HUB

Information & Resources tailored towards students taking any STEM courses















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GRADING POLICY:

<u>Item</u>	Weight
Four Exams	60%
Programming Project	40%

SAMPLE COURSE SCHEDULE:

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Week 1	Input/output Statements	
Week 2	Data types	
	Identifiers	
	Arithmatic Operations	
Week 3	If-else statements	
	Logical Expressions	
Week 4	Nested if	
	Switch Statements	
Week 5	Test 1	
Week 6	For and While Loops	
Week 7	Do While Loop	
	Nested Loops	
Week 8	Data Files	
Week 9	Test 2	
Week 10	Functions	
Week 11	Function Continues	
Week 12	Test 3	
Week 13	Arrays	
Week 14	Arrays Continues	
Week 15	Test 4	

HCCC POLICIES, STATEMENTS, AND SERVICES:

https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html

