

CSIS 2610 - Programming and Problem-Solving

Fall 2026 Syllabus, Section 01, CRN 40796,

Credit hours: 3

Instructor

Zachary L. While

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Public Instructor Information

Instructor Title: Assistant Professor

Instructor Professional Qualifications:

- PhD, Computer Science, *University of Massachusetts Amherst* (2025)
- MS, Computer Science, *University of Massachusetts Amherst* (2022)
- BS, Computer Science & Mathematics, *Youngstown State University* (2018)

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Course Description

2610. Programming and Problem-Solving. Problem solving methods and algorithms using a high-level programming language. Designing, coding, debugging, and documenting programs using techniques of good programming style. Credit will not be given for both CSIS 2610 and CSIS 1595 or CSIS 2605. Prereq.: MATH 1513 or Math Level 45. Coreq.: CSIS 2610L. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	MindTapV2.0 for Malik's C++ Programming: From Problem Analysis to Program Design with 2020 Updates	D. S. Malik	9780357425244

This should be available on Blackboard under **Course Materials**.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Tentative Course Schedule

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1	Introduction to Computers Introduction to Programming Languages	
8/31	Chapter 2	Basic Elements of C++	Quiz 1 Homework 0
9/7	Chapter 3	Input/Output	Quiz 2 Homework 1
9/14	Chapter 4	Control Structures I (Selection)	Quiz 3



9/21		Exam 1 Review	Quiz 4 Exam 1
9/28	Chapter 5	Control Structures II (Repetition)	Homework 2
10/5	Chapter 6	User-Defined Functions	Quiz 5
10/12	Chapter 7	User-Defined Simple Data Types Namespaces The string Type	Quiz 6 Homework 3
10/19	Chapter 8	Arrays Strings	Quiz 7
10/26		Exam 2 Review	Quiz 8 Exam 2
11/2	Chapter 9	Records (structs)	Homework 4
11/9	Chapter 10	Classes Data Abstraction	Quiz 9
11/16	Chapter 10	Classes Data Abstraction	Quiz 10 Homework 5
11/23	Chapter 11	Inheritance Composition	Quiz 11
11/30	Chapter 12	Pointers Classes Virtual Functions Abstract Classes	Quiz 12 Homework 6 Quiz 13
12/7			Final Exam

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.