

CSIS 2610L - Programming and Problem-Solving Lab

Fall 2026 Syllabus, Section 02, CRN 42456,

Credit hours: 1

Instructor

Shihabuz Zaman

Email: szaman@ysu.edu

Biplob Dahal

Email: bdahal08@student.ysu.edu

Public Instructor Information

Instructor Title: Lecturer

Instructor Professional Qualifications:

M.Sc. in Computer Science, University of Louisiana at Lafayette, 2025.

B.Sc. in Computer Science & Engineering, Islamic University of Technology, 2015.

Instructor Office Location: Meshel Hall 332

Instructor Office Phone: 3309413796

Course Description

2610L. Programming and Problem-Solving Lab. Programming laboratory for CSIS 2610. This laboratory will meet for 100 minutes per week. Coreq.: CSIS 2610. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Starting out with C++ from Control Structures through Objects (10th edition), Pearson	Tony Gaddis	9780137450626

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

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Chapter 1 Chapter 2	Syllabus review Introduction to C++ Computer architecture overview Basic input, output and processing Variable and assignment Data types Operators & Expressions Primitives	
8/31	Chapter 3	Type casting and conversion Console input Output formatting	
9/7	Chapter 3 Chapter 4	Relational operator if-else statement Mathematical expressions	



9/14	Chapter 4	Nested if-else Switch statement Comparing characters & strings Input validation
9/21	Chapter 5	Loop Nested Loop
9/28	Chapter 6	Defining & calling function Passing value Global and local variable
10/5	Chapter 6	Recursive function Returning value from function Reading and writing into text file File I/O
10/12	Chapter 7	Arrays Vector Multi dimensional array
10/19	Chapter 8	Searching Sorting
10/26	Chapter 9	Pointers Dynamic memory allocation
11/2	Chapter 9 Chapter 10	Pointer arithmetic Pointer as function parameter String
11/9	Chapter 10	String manipulation Character/numeric conversion
11/16	Chapter 11	Structures
11/23	Chapter 13 Chapter 14	Introduction to OOP Constructors Destructors
11/30	Chapter 15	Inheritance Polymorphism Virtual functions

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.