

CSIS 2610 - Programming and Problem-Solving

Fall 2026 Syllabus, Section A01, CRN 43216,

Credit hours: 3

Instructor

Rachel Gramann

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Public Instructor Information

Instructor Title: Dr. Rachel Gramann

Instructor Professional Qualifications:

- DBA - Capella University (2022)
- MBA - Capella University (2018)
- BS Computer Science - Carroll University (2007)

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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	Starting Out with C++ from Control Structures through Objects Tenth Edition	Tony Gaddis	8220127140546

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 & 2	Introduction to C++ & Basic Structure	Reflective Discussion, Reflective Quiz, Revel Ch. 2_1 & 2_2
8/31	Chapter 3 & 4	Expressions, Interactivity & Decisions	Reflective Quiz, Revel Programming Project 1, Ch. 3_2, 3_3, 4_1 & 4_2
9/7	Chapter 5 & 6	Loops, Files & Functions	Reflective Quiz, Revel Ch. 5_1 & 6_1
9/14	Chapter 7 & 8	Arrays & Vectors	Reflective Discussion, Reflective Quiz, Revel Ch. 7_1 & Ch. 8: Searching and Sorting Arrays
9/21	Chapter 9 & 10	Pointers, Characters & the String Class	Reflective Quiz, Revel Ch. 9: Pointers & Ch. 10: Characters, C-Strings, and More About the String Class
9/28	Chapter 11, 12, & 14	Data & Classes	Reflective Quiz, Revel Ch. 11: Structured Data, Ch. 13: Introduction to Classes & Ch. 14: More About Classes

10/5	Chapter 15	Inheritance & Exceptions	Reflective Discussion, Reflective Quiz, Revel Ch. 15: Inheritance, Polymorphism, and Virtual Functions
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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.