

CSIS 1595 - Fundamentals of Programming and Problem-Solving 1

Fall 2026 Syllabus, Section 02, CRN 43388,

Credit hours: 2

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)

Instructor Office Location: <https://ysu.webex.com/ysu/j.php?MTID=m19be15b48ec755a05b3b04b5a68c5243>

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Course Description

1595. Fundamentals of Programming and Problem-Solving 1. Introduction to concepts, principles, and skills of programming using a high-level programming language. Topics include programming language characteristics, an integrated development environment, algorithms and pseudocode, variables, operators, conditional statements, looping statements, functions, arrays, testing, debugging, documentation and program style. Credit will not be given for both CSIS 1595 and CSIS 2610. Prereq.: CSIS 1590 with a grade of C or better, or MATH 1510 or MATH 1510C or MATH 1511 or MATH 1511C or Math Level 35. Coreq.: CSIS 1595L. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Starting Out with C++ from Control Structures through Objects	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
10/19	Chapter 1	Intro to C++	Discussion Quiz
10/26	Chapter 2	Basic Structure	Discussion Quiz Assignment
11/2	Chapter 3	Expressions	Discussion Quiz
11/9	Chapter 4	Interactivity & Decisions	Discussion Quiz Assignment
11/16	Chapter 5	Loops & Files	Discussion Quiz

11/23	Chapter 6	Functions	Discussion Quiz Assignment
11/30	Chapter 7	Arrays	Discussion Quiz Assignment

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.