CSC 1810 Section 01 - Principles of Computer Science I

Rick Bingen Fall 2021 MWF 10:30 AM - 11:35 AM

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Office Hours: By Appointment or via Discord

Required Material:

Online Book - Programming in C++ (See instructions later in syllabus)

Extra Bonus Material!:

An Animated Introduction to Programming in C++ (Mahoney) You can view it here

Grading Criteria (3 Options):

Normal:

Midterm 10% Final Exam 15% Programming Assignments 65% Zybook Exercises 10%

No Zybooks:

Midterm 15% Final Exam 15% Programming Assignments 70%

Programming:

Programming Assignment 80% Final Project 20% Must complete all projects or receive an Incomplete

Course Description:

This course is primarily designed for CS majors and minors. No prerequisite programming knowledge is required, but you should come with a basic understanding of how to work with text

files and browsing the internet. Throughout this course you will learn the syntax of the C++ language, the general concepts of computer science, and the importance of paying attention to detail.

C++ is an excellent first programming language to learn. It is a more difficult language to learn than other beginning languages, but it is a language that is used a great deal in the industry. If you can learn C++, then you can learn any computer language. Knowing C++ will help you with other languages as well. The C language is a subset of C++. C is used almost exclusively in embedded programming. The Java and C# languages are based on C++ and share much of the same syntax.

.Objectives:

- Develop knowledge of a basic computer system architecture
- Develop a problem solving methodology and apply it to writing programs in C++
- Acquire an understanding of the basic C++ language concepts
- Develop your ability to use a C++ editor, compiler, and debugger

Programming Assignments:

In order to learn the C++ language you must practice outside of class several times a week. Simply attending class is not sufficient to learn any programming language, especially one as complicated as C++. There will be several programming assignments. All assignments must be handed in before midnight on the due date. **Assignments can be turned in late for 80%.** Be sure to hand in whatever work you have completed before the due date. Partial credit is better than no credit. Read the requirements for each assignment carefully. Ask questions on any portion that is not clear.

Students are encouraged to help each other when learning the material. The exchange of ideas enhances the learning process. However, the final product must be your own. Plagiarism of assignments and cheating on exams are not permitted. Any student caught doing so will automatically receive a failing grade. You can find the academic honesty guidelines here. Plagiarism of source code is notoriously easy to detect, so I strongly suggest you don't attempt it.

Zybook Class Text

The text is an online service hosted at zyBooks.com. Because it is online, it offers live exercises within the "book" that give immediate feedback. These exercises are graded.

- 1. Sign in or create an account at learn.zybooks.com
- 2. Enter zyBook code: CARTHAGECSC1810BingenFall2021
- 3. Subscribe

Discord

We will be using the software known as Discord. Discord allows users to chat with other students through text and voice. It can also be used to share your screen. Discord can be installed as a desktop application, mobile application or used in the browser. To add the Carthage CS channel use this link: https://discord.gg/RTFDb3Q

C or Better:

You must achieve a C or better to go on to the next course in our introductory sequence. A C- or below permits you to repeat / delete. However, the loss of a semester throws you out of sync with the department's schedule. If you choose to take an S for this semester it will not count as a C or better.

Advising and Accommodations:

The Carthage Advising Center offers a variety of services and accommodations to students with disabilities, based on appropriate documentation, nature of disability, and academic need. In order to initiate services, students should meet with Diane Schowalter at the start of the semester to discuss reasonable accommodation. After meeting with Diane Schowalter, students in need of accommodations should also speak with individual faculty members from whom accommodations are sought to communicate their needs and make requests in a timely manner. If a student does not request accommodation or provide documentation, the faculty member is under no obligation to provide accommodations. You may contact Diane Schowalter at ext. 5802 or via e-mail at dschowalter1@carthage.edu.

A note about accessibility:

Carthage College strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers due to your disability (including mental health, learning disorders and chronic medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, you also need to register with Diane Schowalter in Learning Accessibility Services (dschowalter1@carthage.edu).

Academic Success and Health:

Good health can help you achieve academic success. The Health and Counseling Center (HCC) supports students by addressing physical, mental, and emotional well-being. All services are free and confidential and are provided by experienced and licensed professionals. Services are available to all full-time, undergraduate students.

TARC 2240 | 262-551-5710 | https://www.carthage.edu/campus-life/health-counseling/Mon-Fri 8:00am-4:00pm

Equity and Inclusion:

I agree whole-heartedly with the Carthage's mission statement on equity and inclusion. It can be found here.