

Introduction to Algorithmic Problem Solving

CSCI 111

Fall 2022, Queens College, CUNY

Lecturer: Rebecca Schley

Lecturer Email: rebecca.schley@qc.cuny.edu

Make sure you can log in to Blackboard. If you cannot, please contact the Help Desk at 718-997-4444. Please familiarize yourselves with how Blackboard works. For example, you may wish to view <https://keepteaching.qc.cuny.edu/i-need-help-with/video-conferencing>. If my internet connection fails during a lecture, please don't leave; I will reconnect as soon as practicable.

All major class announcements will appear on Blackboard in Announcements. Please regularly check the Announcements folder. You are each responsible for all class announcements made in lecture and posted to Blackboard - whether or not you are in attendance in the live class lecture.

Bulk email messages will be rare. (The email addresses I will use for you are the ones in Blackboard. Make sure your Blackboard email address is updated. In addition, you should check and update your CUNYFirst email address.)

Office Hours Tuesday/Thursday 6:00 pm to 6:30 pm, or by appointment.

Office Hours Meeting Location Blackboard Collaborate Ultra

Course Description: Introduction to the principles and practice of programming. Topics include primitive data types; concepts of object, class, and method; control structures; arrays; procedures and functions; parameter passing; scope and lifetime of variables; input and output; documentation.

Prerequisites and/or co-requisites MATH 120 or 151 or equivalent.

Textbook. Brian Overland, *C++ Without Fear*

Course Topics:

Week 1: Introduction to C++

Week 1: Input and output

Week 1: Data types and variables

Week 2: Decisions: *if* and *while*

Weeks 3, 4: Loops: *for* and *while*

Weeks 5, 6, 7, 8: Functions

Weeks 8, 9, 10: Arrays

Week 11: Strings

Week 13: Files

Week 14: Additional Topics

Learning Goals. A solid understanding of the fundamental concepts of programming in C++. Successful students will be able to write correct and complete C++ implementations of projects assigned in lab sessions. Successful students will also complete exam questions that require the writing, reading and analysis of C++ programs and pieces of C++ programs.

Course Website: <https://venus.cs.qc.cuny.edu/~rschley/cs111 lec.html>

Requirements:

Two in-class midterm exams and the final exam
Daily assignments (in lab)
The final exam counts for 40% of the course grade
Each midterm counts for 20% of the course grade
Lab attendance and work count for 20% of the course grade

Exam Dates:

Midterm 1: Thursday, October 13, 2022
Midterm 2: Tuesday, November 15, 2022
Final Exam: Tuesday, December 20, 2022

Policy: No make-up exams will be given. If you miss a midterm, your final exam score will be used in its place. If you miss the final exam you will get a WU for the course, or only in the case of good, sufficient and unforeseen reasons you might qualify for an incomplete grade for the course.

Exams will be in person, on campus, in our regular classroom.

CUNY Vaccine Mandate: Students taking in-person or hybrid classes who fail to follow the vaccine mandate per CUNY policy will be subject to potential academic withdrawal that could also impact their financial aid and might not be eligible for refunds for the course.

Reasonable Accommodations For Students With Disabilities

Students with disabilities needing academic accommodation should register with the Special Services Office by emailing QC.SPSV@qc.cuny.edu. For more information about services available to Queens College students, visit the Office of Special Services website:
<https://www.qc.cuny.edu/studentlife/services/specialserv/Pages/default.aspx>

CUNY Policy On Academic Integrity

Academic Dishonesty is prohibited in The City University of New York and is punishable by penalties, including failing grades, suspension, and expulsion as provided at <https://www.cuny.edu/about/administration/offices/legal-affairs/policies-procedures/academic-integrity-policy/>. Please read this document, paying careful attention to the sections on plagiarism and Internet plagiarism. If you are not sure how to cite work you have found on the internet, please review the APA Guidelines provided by the Purdue OWL.

Statement on student wellness

As a student, you may experience a range of challenges that can interfere with learning, such as strained relationships, increased anxiety, substance use, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may diminish your academic performance and/or reduce your ability to participate in daily activities. QC services are available free of charge. You can learn more about confidential mental health services available on campus at:
<https://www.qc.cuny.edu/StudentLife/services/counseling/counseling/>.

Use of Student Work

All programs in New York State undergo periodic reviews by accreditation agencies. For these purposes, samples of student work are occasionally made available to those professionals conducting the review. Anonymity is assured under these circumstances. If you do not wish to have your work made available for these purposes, please let the professor know before the start of the second class. Your cooperation is greatly appreciated.

Course Evaluations

During the final four weeks of the semester, you will be asked to complete an evaluation for this course by filling out an online questionnaire. Please remember to participate in these course evaluations. Your comments are highly valued, and these evaluations are an important service to fellow students and to the institution, since your responses will be pooled with those of other students and made available online, at the Teaching Evaluations Data: Spring 2010 Present (<http://ctl.qc.cuny.edu/evaluations/data/>). All responses are completely anonymous; no identifying information is retained once the evaluation has been submitted.