

Queens College, CUNY, Department of Computer Science  
**INTRODUCTION TO ALGORITHMIC PROBLEM SOLVING**  
**CSCI 111**  
**Spring 2021**  
Instructor: Alex Ryba

**Class lectures will be given online, live, through Blackboard Collaborate Ultra:**

Monday, Wednesday at 9:10am - 10am or 10.10am - 11am (according to your section).

[To access the lectures, log in to Blackboard, find/click on our class on the left side of the Home Page and then go to Tools and to Blackboard Collaborate Ultra and look for the (active) session. Click on the session and then Join the session. During class, you may write in the chat area on the right side of the page with questions. I will try to keep an eye out — but I will disable your mics; I might be able to switch on one at a time. It would be nice if you turn on your computer webcam during class lecture so I can see you - but that's not a requirement.]

Lectures will be recorded and saved so you should be able to view them through Blackboard after they are given — for review or if you are unable to attend the live stream. To view a recorded lecture, go to Sessions to the drop down menu and to Recordings. If you want to ask a question (or otherwise appear) in a lecture, please be aware that your contribution will be part of the recorded lecture.

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 I can.

**Reminder:**

**The class will not meet on:**

Monday, February 15

Monday, March 29

Wednesday, March 31

**Class Announcements**

All major class announcements will appear on Blackboard in Announcements and will also be posted on the course website:

<https://venus.cs.qc.cuny.edu/~ryba/cs111/>

Please regularly check the Announcements folder and the website. 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. You can update the address you have listed on Blackboard by clicking on 'Update Email' in the 'Tools' section of your homepage; do not confuse this with the Tools section on the course page. The Tools section for updating your email is on the main page where all your courses appear. If you are unsure which email is listed, under the same 'Tools' section on your homepage, click on 'Personal Information' then 'Edit Personal Information'. In addition, you should check and update your CUNYFirst email address.)

**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. 2 lec., 2 lab. hr.; 3 cr.

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

**Required text.** 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.

**Instructor:**

Alex Ryba  
alexander.ryba@qc.cuny.edu  
Online office hours through Zoom: Monday and Wednesday 11.10am – noon

**Course Website:**

<http://venus.cs.qc.edu/~ryba/cs111/>

There are also required lab sections for this course.

**Requirements:**

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

**Exam Dates:**

The first midterm will be on Wednesday March 17th, 2021  
The second midterm will be on Wednesday May 5th, 2021.  
The college has scheduled the final exam for: Wednesday, May 19th 2021, from 08.30am to 10.30am.

**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 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.

Each exam will be taken through blackboard. While taking the exam you must also join a zoom meeting and share a webcam image which we will use for proctoring. In case you are unable to share webcam images during exams you must contact me during the first two weeks of the semester to arrange alternative testing arrangements. (If you do elect an alternative arrangement your grade will be determined by your performance on one cumulative final exam only.)

### **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](mailto: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.

### **Netiquette**

Please maintain a professional demeanor when posting online. You can be respectful even when you have a difference of opinion. Treat others as you'd want to be treated yourself. Don't type in all caps, as that is the online equivalent of shouting. If you need to emphasize a word or phrase, use italics.

### **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.

### **Recording Consent**

Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live.