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 corequisites MATH 120 or 151 or equivalent.

Required text. Brian Overland: C++ without fear

Course Topics:
- Week 1: Introduction to C++ (Chapter 1)
- Week 1: Input and output (Chapter 1)
- Week 2: Data types and variables (Chapter 1)
- Week 3: Decisions: if and while (Chapter 2)
- Weeks 4, 5: Loops: for and while (Chapter 4)
- Weeks 6, 7, 8: Functions (Chapter 5)
- Weeks 9, 10, 11: Arrays (Chapter 6)
- Week 12: Strings (Chapter 8)
- Week 13: Files (Chapter 9)
- Week 14: Review

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
718-997-3488
office: SB A116
office hours: Monday 3.45pm – 4.45pm
Wednesday 3.45pm – 4.30pm
or by appointment.

Course Website:
http://venus.cs.qc.edu/~ryba/cs111/

Classes: Monday and Wednesday, 09.00am – 09.50am or 2.45pm – 3.35pm, SB C205
There are also required lab sections for this course.

Departmental tutors are available to help students from this course. For information about tutors ask in the department office, SB A202.

Reminder:
The class will not meet on:
Monday, September 4
Wednesday, September 20
Monday, October 9
Requirements:
Two in-class midterm exams and the final exam.
Weekly quizzes (in lab), homework assignments (in lab).
The final counts for 30% of the course grade.
Each midterm counts for 20% of the grade.
Lab attendance, quizzes and homeworks count for a total of 30% of the course grade.
The maximum score on the final exam is 30 points. Any student who gets fewer than 10 points on this exam will not get a grade above D.

Exam Dates:
The first midterm will be in class on Wednesday October 18th, 2017
The second midterm will be in class on Wednesday November 29th, 2017.
At present the college has scheduled the final exam for: Monday, December 18th
either: from 08.30am to 10.30am (for the 9am class)
or: 1.45pm to 3.45pm (for the 2.45pm class).
This date and time might be changed by the college during the semester.

Policy: Academic dishonesty such as plagiarism or cheating will be dealt with seriously in accord with the University’s policy on academic integrity.