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 3)
- Weeks 6, 7, 8: Functions (Chapter 4)
- Weeks 9, 10, 11: Arrays (Chapter 5)
- Week 12: Strings (Chapter 7)
- Week 13: Files (Chapter 8)
- 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: NSB A116
office hours: Tuesday, Thursday 10.00am – 11.00am
or by appointment.

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

Classes: Tuesday and Thursday, 09.00am – 09.50am or 11.10am – 12.00noon, 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, NSB A202.

Reminder:
- The class will meet on:
  Friday, September 25 (which has a Tuesday schedule)
- The class will not meet on:
  Thursday, September 10 (which has a Monday schedule)
  Tuesday, September 15
  Tuesday, September 22
  Thursday, November 26
**Requirements:**
Two in-class midterm exams and the final exam.
Weekly quizzes (in lab), homework assignments (in lab).
The final and better midterm each count for 30% of the course grade.
The worse midterm counts for 10% of the grade.
The quizzes and homeworks count for 10% and 20% of the course grade.

**Exam Dates:**
The first midterm will be in class on Tuesday October 13th, 2015.
The second midterm will be in class on Tuesday November 24th, 2015.
At present the college has scheduled the final exam for:
Tuesday, December 22
either: from 08.30am to 10.30am (for the 9am class)
or: 11.00am to 01.00pm (for the 11.10am 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.