**HUNTER COLLEGE**

**DEPARTMENT of COMPUTER SCIENCE**

**Test Out Curriculum Summary**

**CSCI 135**

**Exam Format:**

The student should be prepared to take an examination that tests thoroughly all areas covered by the course, and that requires the student to write correct, documented C++ code to solve several problems. The content areas of the course are described below.

1. The student will be expected to be able to read and analyze C++ programs, and to answer

questions about the logic, semantics, and syntax of such a program.

**Content:**

1. Procedural abstraction, overloading, extent and scope of variables, call-by-value and call-by-reference.
2. Classes, member variables and functions, constructors, public inheritance, data abstraction.
3. Conditional and iterative control constructs.
4. Pointers, de-referencing, dynamic memory allocation.
5. Arrays, string handling.
6. File streams.

**Recommended Reading:**

 Deitel & Deitel: *C++ - How to Program* (5th Ed.), Prentice-Hall

 For students with some knowledge of C++, a good brush-up book is:

 Winston: *On to C++*, Addison-Wesley