Instructor Information

Name: 
Mailbox: 
Email: 
Office Hours:

Office Location: 
Office Phone:

Course Information

Semester: 
Class starts: 
Class Meetings: 
Midterm Exam:

Course CRN: 
Class ends: 
Classroom: 
Final Exam:

Check MyMC class schedule for your Specific 
Deadline to Drop without a grade W or to change 
from audit to credit or from credit to audit

Check MyMC class schedule for your 
Specific Refund Deadlines

Course Description

This course introduces students to C++ syntax and programming techniques such as decisions, loops, arrays, pointers, functions, and file processing. Covers object-oriented concepts such as data abstraction, classes, objects, overloading, and inheritance. Students complete required computer lab assignments.

PREREQUISITE(S): A grade of C or better in CMSC 140 or consent of department. Three hours each week. Formerly CS 226

3 semester hours

Course Outcomes

<table>
<thead>
<tr>
<th>#</th>
<th>Upon completion of the course, the student will be able to:</th>
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<tbody>
<tr>
<td>2.</td>
<td>Apply C++ programming concepts such as templates, pointers, and objects.</td>
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<tr>
<td>3.</td>
<td>Apply object-oriented programming constructs such as classes, operator overloading, inheritance, virtual functions polymorphism, and recursion.</td>
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<td>4.</td>
<td>Create and execute a project that incorporates multiple files.</td>
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Course Materials

Textbook: Starting OUT with C++: from control structures through objects,
To register for MyProgrammingLab, you will need:

- A MyProgrammingLab Student Access Code. Student Access Code purchase options include:
  - New textbooks can be packaged with a Student Access Code.
  - You can order access codes in a package (book + access code).
  - Stand-alone Student Access Codes can be purchased from your bookstore.
- Purchase access online here: [http://www.pearsonmylabandmastering.com/northamerica/myprogramminglab/students/get-registered/index.html](http://www.pearsonmylabandmastering.com/northamerica/myprogramminglab/students/get-registered/index.html)
- A Course Title: CMS226 Intro to C++
- A Course ID: XXXXXXXX
- A valid email address
- Your school's ZIP code

**How to register for MyProgrammingLab**

- Go to [www.myprogramminglab.com](http://www.myprogramminglab.com) and click **Student**.
- Choose your registration method (redeem your Student Access Code, or purchase access online).
- Read and accept the License Agreement and Privacy Policy.
- Follow the on-screen instructions to complete your registration.
- Click the **Log in Now** link to enroll in your course.
- Verify your information is correct and click Next.
- Type in your Course ID: XXXXXXXX and select Next.
- Verify that your information is correct and click Next.

**Grade Basis**

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Final Examination</td>
<td>30%</td>
</tr>
<tr>
<td>Quizzes on Reading Assignments</td>
<td>15%</td>
</tr>
<tr>
<td>Assignments in MyProgrammingLab</td>
<td>15%</td>
</tr>
<tr>
<td>Programming Projects</td>
<td>30%</td>
</tr>
<tr>
<td>Online Discussions</td>
<td>10%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>100%</strong></td>
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**Grading Scale:**
<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90 - 100%</td>
<td>A</td>
</tr>
<tr>
<td>80 - 89%</td>
<td>B</td>
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<tr>
<td>70 - 79%</td>
<td>C</td>
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<tr>
<td>60 - 69%</td>
<td>D</td>
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<tr>
<td>Below 60%</td>
<td>F</td>
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**General Class Policies**

- You are responsible for all work missed, and for meeting assignment due dates when absent. Please call or email your instructor if you are going to be late or absent.
- You are strongly encouraged to contact your instructor at home by phone or e-mail if you are having difficulties, or have any questions about assignments.
- Please include your name and the course information in the submitted assignments.
- Incomplete assignments receive no more than 50% of the grade.
- Assignments are considered incomplete, if they do not compile, they do not contain reasonable comments.
- There is always a means to submit your assignments on time. Be creative, be persistent, and keep your instructor informed!
- All assignments (Tests, Quizzes, Assignments, Projects, and Discussions) must be turned in on or before the due dates to receive full credits.
- Missed Tests, Quizzes, Assignments, and Discussions: NO MAKEUPS without a doctor’s excuse. If the Final Exam is not taken, the student will receive a grade of F for the course.

**Course Topics**

<table>
<thead>
<tr>
<th>Topics</th>
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<tbody>
<tr>
<td>Chapter 1  An introduction to Computers and Programming</td>
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<tr>
<td>Chapter 2  Introduction to C++</td>
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<tr>
<td>Chapter 3  Expressions and Interactivity</td>
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<td>Chapter 4  Making Decisions</td>
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<td>Chapter 5  Loops and Files</td>
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<td>Chapter 6  Functions</td>
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<td>Chapter 7  Arrays</td>
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<tr>
<td>Chapter 8  Searching and sorting Arrays</td>
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<tr>
<td>Chapter 9  Pointers</td>
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<tr>
<td>Chapter 10  Characters, C-Strings, and More About the String Class</td>
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<tr>
<td>Chapter 11  Structured Data</td>
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<tr>
<td>Chapter 12  Advanced File Operations</td>
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<tr>
<td>Chapter 13  Introduction to Classes</td>
</tr>
<tr>
<td>Chapter 14  More about Classes</td>
</tr>
<tr>
<td>Chapter 15  Inheritance, Polymorphism, and Virtual Functions</td>
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<td>Chapter 16  Exceptions, Templates, and the Standard Template Library</td>
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<tr>
<td>Chapter 19  Recursion (topics 19.1-19.4)</td>
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