MONTGOMERY COLLEGE
Rockville Campus
Engineering, Physical and Computer Sciences Department
CMSC226 Intro to Object-Oriented Programming C++

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

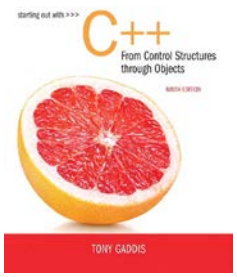
Course Description

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

#	Upon completion of the course, the student will be able to:
1.	Create applications using Microsoft Visual C++ .Net or other development environments.
2.	Apply C++ programming concepts such as templates, pointers, and objects.
3.	Apply object-oriented programming constructs such as classes, operator overloading, inheritance, virtual functions polymorphism, and recursion.
4.	Create and execute a project that incorporates multiple files.

Course Materials



Textbook: Starting OUT with C++: from control structures through objects,

Tony Gaddis, 9th Edition

MyProgrammingLab:
http://www.myprogramminglab.com

Textbook and other materials may be purchased through the bookstore

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
- 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 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: **XXXXXXX** and select Next.
- Verify that your information is correct and click Next.

Grade Basis

Final Examination	30%
Quizzes on Reading Assignments	15%
Assignments in MyProgrammingLab	15%
Programming Projects	30%
Online Discussions	10%
Total:	**100%**

Grading Scale:

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
Below 60%	F

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

Topics
Chapter1 An introduction to Computers and Programming
Chapter2 Introduction to C++
Chapter3 Expressions and Interactivity
Chapter4 Making Decisions
Chapter5 Loops and Files
Chapter6 Functions
Chapter7 Arrays
Chapter8 Searching and sorting Arrays
Chapter 9 Pointers
Chapter 10 Characters, C-Strings, and More About the String Class
Chapter 11 Structured Data
Chapter 12 Advanced File Operations
Chapter 13 Introduction to Classes
Chapter 14 More about Classes
Chapter 15 Inheritance, Polymorphism, and Virtual Functions
Chapter 16 Exceptions, Templates, and the Standard Template Library
Chapter 19 Recursion(topics 19.1-19.4)