UMBC
AN HONORS UNIVERSITY IN MARYLAND

CMSC 202 – Spring 2016
Syllabus

Section 1: Course Information

Course Number	CMSC 202
Course Name	Computer Science II for Majors
Location	Lecture Hall 1
Term	Spring 2016
Instructor	Katherine Gibson
Contact Information	See Blackboard
Office Hours	See Blackboard (and by appointment)
Textbook (required)	Absolute C++ by Walter Savitch, (Sixth Edition)

Section 2: Course Overview

This course continues the student's development of programming and problem-solving skills by providing an introduction to object-oriented design and programming (OOP). The primary focus is on OOP principles and techniques, including encapsulation, aggregation, inheritance, and polymorphism. Other OOP topics such as exception handling and templates are also covered. This is the second course for students interested in pursuing further study in computer science.

Programming projects for this course will use the C++ programming language and the Emacs programming environment.

Prerequisites: CMSC 201 (with a "B" or better) and MATH 151 (with a "C" or better)

Section 3: Course Objectives

The objectives of this course are to:
- Improved problem solving abilities
- Improved program design skills
- Improved coding skills
- Understanding the fundamental programming concepts of abstract data types
- Understanding the fundamentals of the object-oriented programming paradigm
- Improved ability to test and debug programs

Section 4: Grading Criteria

Weights:

Type	Quantity	Weight	Subtotal
Signed Class Policy	1	1%	1%
Projects	5	8%	40%
Labs*	13	1%	10%
Exams	2	15%	30%
Comprehensive Final	1	19%	19%
Total			**100%**

* For Labs, the 10 highest scores are used in calculating the final grade.

Grading Scale:

90 - 100	A	
80 - 90	B	Required for CMSC
70 - 80	C	Required for CMPE
60 - 70	D	
< 60	F	

Project Grades:

Projects will be graded according to the following general criteria. Detailed rubrics will be made available for each project.

Criteria	Weight	Description
Program Build	10%	Program compiles; Makefile functions correctly
Basic Tests	10%	Program passes basic functional tests
Intermediate Tests	10%	Program passes intermediate functional tests
Advanced Tests	15%	Program passes advanced functional tests
Program Design	40%	Good use of object-oriented design principles
Coding Standards*	10%	Adherence to coding and documentation standards

* The coding standards can be found on Professor Marron's website.

Section 5: Course Policies

Course Preparedness: You are responsible for all material covered in the lecture, even if it is not in the course web pages. You are responsible for the material in the course web pages, even if it is not covered during lecture.

Late Policy: A project submission is "late" if any of the submitted files are time-stamped after the due date and time. Projects will be accepted up to 48 hours late, with the following penalties:

Hours Late:	Deduction:
Up to 24	15 points
24 to 48	50 points
More than 48	Score of zero

Note: The stated late penalties are in *points* not percentages. If a project receives a score of 75, but it submitted one day late, the final score will be 75 - 15 = 60.

Network and computer failures are a fact of life and are outside the control of your instructors or the CSEE Department. However, they are not an excuse for a project to be submitted late, nor are they a reason for project deadlines to be extended, even if the outage occurs on the due date. Waiting to submit your project until shortly before it is due is a recipe for disaster. Project extensions will not be given for such problems.

Section 6: Attendance
You are expected to attend all lectures and your weekly discussion session. Although attendance is not a direct component of your grade, students who attend class generally perform more highly than their non-attending peers. The lab assignments are to be done during your weekly discussion session, so attendance is mandatory.
All discussion sections meet in the Engineering Building (ENG). You MUST attend the discussion section you are registered for in order to receive credit for the labs.

Section 7: Communication
All communication with your professor should be through your UMBC email as per the dictation of the Family Educational Rights and Privacy Act (FERPA). Email subject lines must contain the course name, your section number and a meaningful title. (For example, "CMSC 202, Sec 3, HW4 Question" is a good subject line. However, "202 Question" is not.) Your professor may not respond to emails without proper subject lines.

Course material such as slides, information about exams, and announcements will be posted on the course's Blackboard. It is your responsibility to check Blackboard regularly.

The projects and labs are located on Professor Marron's page for CMSC 202, available here (http://www.csee.umbc.edu/courses/undergraduate/202/spring16_marron/).   It is your responsibility to keep track of deadlines and assignments, and to check Blackboard regularly.
Professor Marron's page also contains the information on how projects are graded, the academic integrity policy for the course, and the office hours of the TAs.
Note that you are to follow Professor Marron's page for these things only – lecture materials, exam times, and other information will be located on the Blackboard page for this course. If you are unsure of something, consult your professor.

Section 8: Academic and Technology Resources

Students have several avenues for receiving help on homeworks, labs, and with general content. Your first stop should be the TAs: they hold office hours in ITE 240 during the week. Please note that you may attend the office hours of any TA, not just the TA whose discussion section you attend. If they are unable to help you resolve your questions, try to contact your professor via email. Generally, scheduling an appointment via email is the best way to meet with your professor.

You can also visit the Learning Resources Center (LRC), where you can find tutoring for CMSC 104, CMSC 201, CMSC 202, and CMSC 203 by appointment. To sign-up for CMSC tutoring, fill out their enrollment form.

For technology support, you can contact the Technology Support Center (TSC) on the first floor of the Albin O. Kuhn library. For more information, call 410-455-3838 or check out: http://doit.umbc.edu/tsc/

Section 9: Students with Accommodations

UMBC is committed to eliminating discriminatory obstacles that may disadvantage students based on disability. UMBC complies with federal legislation for individuals with disabilities (Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the ADAA of 2009) that offers reasonable accommodations to qualified students with disabilities. Student Disability Services (SDS), formerly Student Support Services, is the UMBC department designated to:

- receive and maintain confidential files of disability-related documentation,
- certify eligibility for services,
- determine reasonable accommodations,
- develop with each student plans for the provision of such accommodations, and
- serve as a liaison between faculty members and students regarding disability-related issues.

If you have a documented disability and need to request accommodations, please refer to the SDS website at http://sss.umbc.edu or contact the office by phone at 410-455-2459, via email at sss@umbc.edu, or in person in Math/Psychology Room 213. If you require accommodations for this class, make an appointment to meet with your professor to discuss your SDS-approved accommodations.

Section 10: Academic Integrity

By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal. To read the full Student Academic Conduct Policy, consult the Academic Integrity Resources for Students page (http://www.umbc.edu/undergrad_ed/ai/students.php) or the Faculty Handbook (http://provost.umbc.edu/faculty-handbook/), specifically Sections 14.2-14.3.

If you need help with a project, see your instructor, your TA, or tutors provided by the Learning Resource Center. We also encourage you to consult textbooks and the course web pages. Consult the projects page for additional Academic Integrity policies for projects.

Any act of dishonesty will be reported to the University's Academic Conduct Committee for further action, which may include, but is not limited to, academic suspension or dismissal from the University.

Further information on the academic integrity policy for CMSC 202 can be found on the Projects page, located on Professor Marron's website (http://www.csee.umbc.edu/courses/undergraduate/202/spring16_marron/projects/).