

CMSC 201 – Fall 2016 Syllabus

Section 1: Course Information

Course Number	CMSC 201
Course Name	Introduction to Computer Science I for Majors
Locations	Dependent on Course Section
Term	Fall 2016
Instructors	Katherine Gibson, Michael Neary, Penny Rheingans, Krystle Wilson
Course Website	http://www.csee.umbc.edu/courses/undergraduate/201/fall16/
Contact Information	See course website
Office Hours	See course website (and by appointment)
Textbook	Python for Everyone (2nd edition) by Cay Horstmann and Rance Necaise
(highly recommended)	

Section 2: Course Overview

An introduction to computer science through problem solving and computer programming. Selected topics in computer science are introduced through programming projects in the Python language running under a UNIX operating system. The core material for this course includes functions, strings, loops, and files. Programming techniques covered by this course include modularity, abstraction, top-down design, specifications, documentation, debugging, and testing. No prior programming experience is required.

Section 3: Course Objectives

By the end of this course, students should be able to:

- 1. Solve programming problems using a modern coding language such as Python.
- 2. Define key concepts in programming including loops, lists, functions, and selection structures.
- 3. Make use of problem-solving skills, especially in the use of computers to solve real-world problems.
- 4. Explain and apply the proper steps in developing and creating a computer program.
- 5. Demonstrate the ability to debug a program so it runs successfully and solves the problem.
- 6. Use UMBC's UNIX system to create, test, and execute Python programs.
- 7. Transfer the skills learned to achieve success in future courses, projects, and employment.

Section 4: Grading Criteria

<u>Type</u>	Quantity	Points Per	<u>Subtotal</u>
Homeworks	8	40	320
Projects	2	80	160
Surveys	4	5	20
Labs*	13	10	100
Midterm	1	200	200
Comprehensive Final	1	200	200
Total			1000

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

Grading Scale:

900 - 1000	Α	
800 - 899	В	Required for CMSC & CMPE (entered Fall 2016)
700 - 799	С	Required for CMPE (entered prior to Fall 2016)
600 - 699	D	
< 600	F	

Section 5: Course Policies

Late Work: No late work will be accepted in this course. All assignments must be submitted by 8:59:59 PM on the day due. The lab assignments are to be done during your weekly discussion session, so attendance is mandatory.

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

Section 6: Attendance

You are expected to attend all lectures and your weekly discussion session. Although lecture 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 lab attendance is mandatory; arriving more than 15 minutes late for lab means you will receive a zero for that week's lab. 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 CMSC 201 staff 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 201, Sec 3, HW4 Question" is a good subject line. However, "201 Question" is not.) Course staff may not respond to emails without proper subject lines.

Course material and information about assignments and exams will be posted on the course website. It is your responsibility to keep track of deadlines and assignments, and to check the website regularly.

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 Monday through Friday. Please note that you may attend the office hours of <u>any</u> TA, not just the TA whose discussion section you attend. You may also visit the office hours of any of the instructors. The office hour details can be found on the course website.

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. Each appointment is 50 minutes once a week, with a small group of other students taking the same course. 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 the website: http://doit.umbc.edu/tsc/

Section 9: Mental Health Resources

Diminished mental health can interfere with optimal academic performance. The source of symptoms might be related to your course work; if so, please speak with your instructor. However, problems with other parts of your life can also contribute to decreased academic performance. UMBC provides cost-free and confidential mental health services through the Counseling Center to help you manage personal challenges that threaten your personal or academic well-being.

Remember, getting help is a smart and courageous thing to do -- for yourself and for those who care about you. For more resources get the Just in Case mental health resources Mobile and Web App. This app can be accessed on this web page: http://counseling.umbc.edu/justincase

The UMBC Counseling Center is in the Student Development & Success Center (between Chesapeake and Susquehanna Halls). Phone: 410-455-2472. Hours: Monday-Friday 8:30am-5:00pm.

Section 10: 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://sds.umbc.edu or contact the office by phone at 410-455-2459, via email at disability@umbc.edu, or in person in Math/Psychology Room 212. If you require accommodations for this class, make an appointment to meet with your instructor to discuss your SDS-approved accommodations.

Section 11: Guided Review Section

In the Fall 2016 semester, the department has designated one lecture section (and its five associated discussion sections) as being available only to students with no prior programming experience. In addition to only being open to new programmers, this lecture also requires that its students attend an hour-long guided review session (GRS) with a TA each week. This hour of required guided review is in addition to the hour of required computer lab practice, and the two 75-minute lectures each week. The section covers the same material at the same pace, and with the same evaluations (test, homeworks, labs, etc.).

The guided review session (GRS) is required; however, as it is meant to be a review, students are not given a GRS grade each week. Instead, in order to enforce attendance, failure to attend a GRS will result in a zero for that week's lab (even if the student successfully completed the lab). In the interest of fairness, in addition to dropping the two lowest lab grades, two GRS absences will be forgiven.

Materials and activities used in the GRS each week will be made available to all students on the course website. Students who are not in the GRS are encouraged to review and make use of these materials.

Section 12: Academic Integrity

CMSC 201 is a difficult course for many students, and requires a substantial amount of time and effort outside of the classroom. Many of you are learning to code for the first time, and will need to learn new ways of thinking about a problem, new methods for solving a problem, and new techniques for analyzing a problem. Doing the assignments, finding (and fixing) errors and bugs, and improving your coding skill are 100% necessary for you to succeed in computer science.

For this reason, CMSC 201 has very strict rules about academic integrity and student collaboration on all assignments. Cases of academic dishonesty will be dealt with *severely*. If your assignment is found to be "**substantially similar**" to that of another student, both you and the other student will receive a grade of 0 for that assignment. Furthermore, all parties concerned will have their prior assignments more closely examined for cheating. A second incident will result in a grade of 'F' for the semester.

We will be using special software to check for cheating. The software is quite sophisticated and has surprised many students in the past. There is no difficulty in comparing every pair of assignments – even assignments submitted to other sections of this course, or from previous semesters.

Nonetheless, being able to collaborate effectively with other programmers is also an important skill, and we want students to start cultivating it early. To that purpose, we will allow collaboration on <u>some</u> assignments; this will be clearly stated both on the assignment page and in the individual assignment documents. Some will be marked "individual work only," which means you are only allowed to solicit help from the TAs, instructors, and tutors. Other assignments will be marked "collaboration allowed," which means that you will be allowed to work with other current CMSC 201 students (even those in other sections). However, in order to foster individual understanding of the material, there are still restrictions on what collaboration "means" in CMSC 201. See Section 13 of the syllabus for more details.

Regardless of if an assignment allows collaboration or not, there are some basic rules and restrictions that you should never violate in completing your work. If you have questions about what is acceptable, please contact an instructor or TA. What follows is a *non-exhaustive* list of restrictions for completing your assignments in this course.

You may not download or obtain anyone else's work.

- You should think carefully about the assignment, and the assignment you turn in should be entirely a
 product of your own understanding of the material.
- You may <u>not</u> google or search for the solution to an assignment, even if it's "only for reference," even if you put it aside before programming, and even if that code is not from another student.
- You may <u>not</u> copy code other than that provided in the course materials (slides, book, labs, etc.).
- You may <u>not</u> purchase or otherwise contract someone else to do the assignment (in whole or in part) for you. If we find that you have done so, it will result in an automatic F in the course.

You may not share or upload the work you do on this course's assignments (homeworks, projects, labs, etc.).

- You may <u>not</u> email code, in whole or in part.
- You may <u>not</u> post screenshots of your code, in whole or in part.
- o You may not post code to public repositories or forums, in whole or in part.
- You may <u>not</u> allow anyone to access your files. This means <u>properly protecting your work</u>: do not leave your computer unlocked if you step away; do not allow someone to copy code from your monitor; do not give your password to another student.

You will be held to UMBC's Undergraduate Student Academic Conduct Policy.

The details of the policy can be found here: http://www.umbc.edu/policies/pdfs/iii-1.10.03.pdf

You should come to office hours for assistance.

- o Come early and often! The day an assignment is due will be very busy!
- You may go to any office hours, including those held by a TA other than your own.
- Part of the learning process of Computer Science is getting stuck the TAs are there to help answer your questions, and to teach you how to find your own solutions.
- o Make sure you have a specific question, and can explain to the TA what it is you're having trouble understanding and/or what techniques you've already tried to solve your problem.

Section 13: Collaboration Policy

The restrictions above may seem overbearing and artificial. After all, in the "real world," computer scientists and programmers aren't beholden to these rules. In both the industry and in many upper-level CMSC classes, uploading your work, accessing other's files, googling for solutions, and even using other people's code are all permitted and encouraged. However, in the "real world," programmers need to be able to work in both collaborative and independent environments; we're doing our best to ensure that you will master both skills. To that end, we will be allowing you to collaborate on some assignments this semester.

In the header comment in <u>every</u> file that you turn in this semester, you must have a line stating one of the following three things:

- Collaboration: Collaboration was not allowed on this assignment.
 On assignments where collaboration was not allowed, you must acknowledge this.
- 2. Collaboration: I did not collaborate with anyone on this assignment part.

 If you did not work with anyone on the part of the assignment the header comment is located in, you must clearly state this. Getting help from a TA or instructor does not count as collaboration.
- 3. Collaboration: I collaborated with Fox Mulder (fmulder1@umbc.edu); I helped him understand the loop. I collaborated with Dana Scully (scully18@umbc.edu); we helped each other with debugging.

If you worked with anyone on the part of the assignment the header comment is located in, you must state their name and UMBC email, and give a brief description of what the collaboration was. Both students need to note this collaboration in their header comment.

Even if someone helped you, but you didn't get a chance to help them (or vice versa), you both still need to note it down in your file header.

"Typing must be done separately, thinking can be done together." is a good rule of thumb if you are working on a collaborative assignment with a classmate. Another good rule of thumb is that you should never touch someone else's keyboard. It can be easy to get carried away -- you just want to help them "fix one thing," but what you end up doing is typing your code into their assignment.

To give you a better idea of the difference between individual work, collaboration, and violating the Academic Integrity policy, we've created a chart with some examples. As always, if you have questions or are unsure if an action would violate the Academic Integrity policy, please ask a TA or instructor.

Getting help from an instructor or TA Getting help from an instructor or TA Consulting the official Python documentation You can find it at https://docs.python.org/release/3.3.2/ Discussing course topics covered by assignments Allowed Allowed Allowed Greating, sharing, or copying course notes Allowed Getting or receiving help with using GL or the UMBC Linux system Allowed Allowed Comparing output from your assignments As long as you do not look at each other's code when it's individual. Discussing how to test your code We don't always tell you every little thing that could go wrong with your code, so working together on this is a great idea. Borrowing verbatim from the course slides or book You don't need to cite your sources if you use the book or slides. Watching tutorial videos on YouTube (or other video sites) Sometimes you need to be able to watch or hear an explanation over and over before you "get" it, and we understand that. Searching for answers or help on the general internet is still not allowed. Working together on practice problems or Interactivities Helping someone else debug their code Planning a general design for your program Not allowed Allowed Allowed Brainstorming general solutions to the assignment Not allowed	Action	Allowed for	Allowed for
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