

Information Systems Department
University of Maryland Baltimore County
Baltimore, Maryland. 21250
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IS 147 Introduction to Programming:
Fall 2020, Section [#]

Instructors: Ahmed Aleroud
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Course Delivery Site <http://blackboard.umbc.edu>
Office Hours: Thursday 1-2 pm and by appt. unless otherwise noted

Teaching fellow
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Meeting Times: Lecture: [Thursday 8:30AM-9:45AM], online
Discussion: Section 02, [Monday 8:30-9:45 AM], online
Section 03, [Monday 10:00-11:15 AM], online

Textbook: REVEL for Liang, online version of Introduction to Java Programming from Pearson publishing: ISBN 13: 9780134167008

Course Description and Rationale

This course introduces the basic principles and techniques involved in computer programming and computing. Methods of algorithm development, program development, and program design are taught using an object-oriented programming language. Projects are geared toward those typically encountered in the Information Systems field.

This course is an introduction to both programming and the principles of computer science. You will learn how to program with principles that are relevant to all programming languages and also learn the basic concepts and vocabulary of computer science. It is a very important course in your education and will require significant weekly work on the readings and the programming projects. You will learn foundational computing concepts and develop programming skills. This course serves as preparation for IS 247. We will be using the Java programming language.

Prerequisites

Recommended Preparation: IS 101 or COMP 101Y

Course Objectives

- Demonstrate skills necessary to succeed as a computing student and professional.
- Work effectively in a team to solve a complex technological challenge.
- Understand and apply fundamental concepts in computing (i.e., computational thinking, social responsibility and ethical inquiry)
- Write basic programs using variables, conditional logic, loops, and functions.

Instructional Methods

Lecture and lab.

Attendance and Participation

Regular and punctual attendance is expected of all students. In the case of absence due to emergency (illness, death in the family, accident), religious holiday, or participation in official College functions, it is the student's responsibility to confer with the instructor about the absence and missed course work.

Class Preparation and Student Success

All of the reading assignments should be completed before the class in which the material is to be discussed. Students should expect that for every 3 credit hour course they are devoting at least 9 additional hours preparing and studying course materials which are required or suggested. Students should contact the instructor for additional information about how to best achieve the goals and meet the academic expectations for this course. Additional support may be available through university or department resources in order to guide students toward success.

Course Requirements

Regular, punctual attendance is expected of all students in both lecture and lab. In-class assignments and homework must be completed by the time and date specified for full credit. Students are expected to be respectful, active contributors during group work.

Grading

There are 4 modules: each Learning Unit will typically consist of a mix of: in-class programming (20%), reading and programming homework (10%), an objective test (30%) and a hands-on programming test (30%). The units have a varying amount of material and importance and therefore they have a variable weight when it comes to a final grade for the semester.

Exams

There will be 4 Exams. In total, the exams will result in a total of 60% of your semester grade.. Exams may include any type of question or exercise covering any aspect of the course currently under discussion or assignment.

Grading Standards

IS instructors are expected to have exams and evaluations, which result in a reasonable distribution of grades. With respect to final letter grades, the University's Undergraduate Catalogue states that, "A, indicates superior achievement; B, good performance; C, adequate performance; D, minimal performance; F, failure" There is specifically no mention of any numerical scores associated with these letter grades. Consequently, there are no pre-defined numerical demarcations that determine final letter grades. These numerical demarcations that determine final letter grades can only be defined at the end of the semester after all numerical grades have been earned. At that point, numerical demarcations for final letter grades can be defined such that final letter grades in this course conform to the University's officially published definitions of the respective letter grades. In accordance with the published University grading policy, it is important to understand that final letter grades reflect academic achievement and not effort. While mistakes in the arithmetic computation of grades and grade recording errors will always be corrected, it is important to understand that in all other situations final letter grades are not negotiable and challenges to final letter grades are not entertained. Historical data suggest an "A" may be in the 91-100 range, "B"'s may be from 81-90 and "C" grades range from 70-80.) All points from assignments and exams are additive for the semester. Each student starts at zero points which is an "F", any other grade must be earned. There will be no extra credit assignments available.

Due Dates

All assignments are to be handed in by the due date. If an assignment is not completed and submitted on time it may be accepted the following class session with an accompanying

reduction of 70% of the earned grade. Due to some scheduling issues, some late assignments may not be accepted at all and will result in a total loss of points.

Make-up Policy

No make-up exams are allowed except through arrangement with the instructor prior to the exam date. As a result of creating new questions, make-up exams may be harder than the original scheduled exam.

Course Schedule

The course schedule is subject to change. An up-to-date schedule is available on the course website.

Inclement Weather

Any work or test due on a class date that has been canceled due to inclement weather will be due the next class meeting. (If the semester's last exam is postponed, it will be given during the time period assigned during the University's official Final Exam week.)

At a Glance: UMBC Policies and Resources for Students during COVID-19

Bookmarks

- [UMBC Vision Statement](#)
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UMBC's Vision Statement

Our UMBC community redefines excellence in higher education through an inclusive culture that connects innovative teaching and learning, research across disciplines, and civic engagement. We will advance knowledge, economic prosperity, and social justice by welcoming and inspiring inquisitive minds from all backgrounds.

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Student Safety

In response to the COVID-19 pandemic, it is understood that some students who are enrolled in classes that have an in-person component may have or develop COVID-19 related health concerns coming to campus to attend those classes this semester. No student shall be compelled to attend class or attend an assessment if they have COVID-19 related health concerns. However, for students enrolled in courses having a physical presence component who anticipate not being able to attend the in-person class sessions due to COVID-19 related health concerns, it is advisable to provide notice to the course instructor at the beginning of the term so that alternate arrangements can be made. Students enrolled in courses with an in-person component who develop COVID-19 related health concerns during the semester should immediately contact the course instructor to discuss alternative instructional arrangements.

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Technology: Access, Requirements, Resources, Support

To help ensure that UMBC students are equipped for academic success, the Division of Information Technology (DoIT) provides a wealth of resources and support, including tips for getting online and minimum specifications to consider when purchasing a computer (doit.umbc.edu/students). UMBC does require all students to be technologically self-sufficient, which entails having a reliable personal computer (preferably a laptop with webcam) and Internet access. Since UMBC requires all students to have a computer and Internet access, financial aid may be used to meet this requirement. To learn more, students should contact their financial aid counselor at financialaid.umbc.edu/contact.

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COVID-19: Safety Expectations and Guidelines

Students enrolled in this course are expected to adhere to all UMBC policies, rules, and regulations, including COVID-19 emergency health and safety rules, policies, guidelines, and signage enacted for the UMBC community. For students attending in-person classes, signage,

policies, rules, and/or guidelines may include but are not limited to specific requirements for face coverings, physical distancing, and sanitization, in addition to efforts to reduce density efforts that involve reductions in seating and room capacity. Please be aware that UMBC's COVID-19 emergency health and safety rules, regulations, policies, guidelines, and/or signage are subject to change as our public health crisis evolves. Any violation will be subject to disciplinary action and may include but not limited to immediate dismissal from the classroom, removal from the classroom and/or campus, a requirement to work remotely, and/or sanctions and conditions enumerated in the [UMBC Code of Student Conduct](#) that may entail suspension or expulsion from UMBC.

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Academic integrity in the Online Instruction Environment

Academic integrity is an important value at UMBC. 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. These principles and policies apply in both face-to-face and online classes. Resources for students about academic integrity at UMBC are available at <https://academicconduct.umbc.edu/resources-for-students/>.

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Resources to Help you Succeed in Online Courses

Many students need additional support to succeed in online courses. Click on the following links for helpful resources:

[UMBC's Academic Success Center \(ASC\)](#) provides a range of resources to support students as they progress toward degree completion. They will continue to offer all of their services online.

The ASC has created a specialized set of [Online Learning Resources](#), including videos and guides to help students succeed while learning online.

In addition, check out the following resources:

- [Academic Success Center Resources](#) include: Online tutoring and writing support, supplemental instruction/peer-assisted study sessions ([SIPASS](#)), placement testing, FYI academic alerts, success courses, academic advocacy, academic policy and academic success meetings.

- [Tutoring and Writing Center Appointments](#) will be online; students can make appointments using this [link](#).
- [SI PASS](#) Supplemental Instruction (SI)/ *Peer Assisted Study Sessions* (PASS). The SI PASS program targets traditionally difficult academic courses, providing regularly scheduled, out-of-class review sessions, happening in Blackboard Collaborate inside your existing Blackboard course.
- [Academic Advocates](#): Advocates work one-on-one with students who need support navigating academic and institutional challenges, no matter how complex the concerns (i.e., personal, academic, or financial).
- [Academic Success Meetings](#) - Schedule a one-to-one virtual meeting with an Academic Success Center Professional who can help you with time management, study skills, and accessing campus resources.

If you have a question, please contact the ASC at academicsuccess@umbc.edu

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Enrollment Dates and Deadlines

Students must be familiar with the academic policies and enrollment dates and deadlines as published in the [Undergraduate Catalog](#) and the [Academic Calendar](#). They are also responsible for managing their course enrollment(s) accordingly.

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Accessibility and Disability Accommodations, Guidance and Resources

The latest language is available on [the OEI website here](#). Mandatory due to legal requirements.

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Religious Observances & Accommodations

The latest language is available on [the OEI website here](#).

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Hate, Bias, Discrimination and Harassment

The latest language is available on [the OEI website here](#).

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Sexual Assault, Sexual Harassment, Gender Based Violence and Discrimination

The latest language is available on [the OEI website here](#). Mandatory due to legal requirements.

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Pregnancy

The latest language is available on [the OEI website here](#).

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