IS 147 Introduction to Programming

Spring 2016  Section 1

Instructor:  Tate O. Redding
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Course Delivery Site  http://blackboard.umbc.edu
Office Hours: ITE 414, see posted schedule for appointments

Meeting Times:  Section 1: T/Th  8:30-9:45am  room as assigned in the schedule

Textbook:  Introduction to Java Programming 10th ed. Comprehensive with MyProgrammingLab
By Daniel Liang, Pearson, 2015

Course Description:  “This course introduces 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 found in the information systems
field.”  3 credits. Prerequisite: IS 101 recommended (from catalog)

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. It will give you the
concepts that will make your future IS courses easier and give you a valuable programming skill that
you can use in future courses. This course serves as preparation for IS 247. We will be using the Java
programming language.

Instructional Methods:  Discussion, Lectures and Demonstrations

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:  All of the reading and homework assignments should be completed before the
class in which the material is to be discussed.
**Course Requirements:** Regular Punctual Attendance, Class Assignments & Homework, Tests, Programming Projects.

**Grading:** There are 10 Learning Units: Each Unit is worth 10% of your final grade. Each Learning Unit will typically consist of a mix of : reading assignments, MPL Exercises (10%), in class lab programming (10%), programming homework (10%), an objective test (35%) and a hands-on programming test (35%).

Since each Learning Unit is a preparation for the next, students need to master the material to at least an adequate level (80%) in the current unit in order to have a reasonable chance to succeed in subsequent units. (Blackboard total points are irrelevant as we use a weighted system- your current numerical grade is always available as a running total expressed as a percentage from 0-100%).

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. 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.

For this course it is anticipated that “A” grades may be in the 90-99% range, “B” grades may be from 80-89% and “C” grades range from 70-79%. All points from each Learning Unit are additive. 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 as announced in class. If an assignment is not in on time it might possibly be accepted the following class with an accompanying reduction of 50% of the earned grade. **Most late assignments are not accepted at all since you need to have all of the work for each unit completed prior to the tests for that unit.**

**Make-up Policy:** Exams: No make-up exams except through arrangement with the instructor: and then for reasons deemed valid enough to warrant the making of a new, and potentially harder, test.

**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, fabricating, 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. Full policies on academic integrity should be available in the UMBC Student Handbook, Faculty Handbook, or the UMBC Directory.

*You may not copy other students’ work or copy programs from the Internet. You will receive an F for any assignment found to be copied for the first time and any subsequent violations will result in immediate failure of the course. Also, do not post code in the forums. Always post pseudocode. It is a violation of the course policy to email each other code.*
**Disability Statement** UMBC is committed to eliminating discriminatory obstacles that may disadvantage students based on disability. Student Support Services (SSS) 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 disability and want to request accommodations, contact SSS in the Math/Psych Building, Room 213 or Academic IV-B wing Room 345 (or call 410-455-2459 or 410-455-3250). SSS will require you to provide appropriate documentation of disability and complete a Request for Services form available at [http://my.umbc.edu/groups/sss](http://my.umbc.edu/groups/sss). If you require accommodations for this class, make an appointment to meet with me to discuss your SSS-approved accommodations.

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**COURSE SCHEDULE**

(Schedule subject to change!)

See the Schedule updates online

https://docs.google.com/a/umbc.edu/spreadsheet/ccc?key=0AtwXqc4GLh9kdFgxNExrdnBkWkNWSIR0ZHJ1cktFbnc&usp=sharing

<table>
<thead>
<tr>
<th>Dates -updated in class- See Google drive doc</th>
<th>Material Covered</th>
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<tbody>
<tr>
<td>Tuesday January 26</td>
<td>Introduction to Course and Syllabus</td>
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<tr>
<td>Thursday January 28</td>
<td>Chapter 1: Intro to Computers, Programming and Java</td>
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<td>Chapter 2: Elementary Programming</td>
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<td>Chapter 3: Selections</td>
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<td>Chapter 4: Math Functions, Characters and Strings</td>
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<td>Chapter 5: Loops</td>
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<td>Chapter 6: Methods</td>
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<td>Chapter 7: Single Dimensional Arrays</td>
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<td>Chapter 8: Multi-Dimensional Arrays</td>
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<td>Chapter 9: Objects and Classes</td>
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<td>Chapter 10: Object Oriented Thinking</td>
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<td>Final Exam Week</td>
<td>If needed we might use the 2 hour final exam period.</td>
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<td>No Class March 15/17</td>
<td>Spring Break</td>
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**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 period is postponed, it will be given during the time period assigned during the University’s official time and day indicated on the calendar posted by the registrar’s office.)