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Spring 2-1-2017

### CSCI 135.00 Fundamentals of Computer Science I

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# Fundamentals of Computer Science CSCI 135

## Syllabus Spring 2017

### **CSCI 135 Section 00**

Instructor: Michael Cassens

Office: SS 411

Office Hours: MW 12:00-12:50 pm, F 11:00-11:50am or by appt

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**URL: <http://umonline.umt.edu/>**

### **Overview:**

This class is designed to give you a good general understanding of software development and logical reasoning. This course focuses on introducing general programming and object oriented programming concepts using the Java programming language. This course will introduce all of these concepts as well as provide a number of hands on opportunities to become proficient in using these tools.

- General Computing Concepts
- Object Oriented Concepts
- Logical Reasoning and Critical Thinking
- Java Programming Constructs

Upon completing this course, a student will be able to:

- Understand the basic components of a computer and how it works
- Declare and understand the difference between primitives and object data types
- Create UML diagrams based on requirement descriptions
- Instantiate and use classes from the built-in Java library as well as custom classes
- Create graphical programs using appropriate layout managers and event handlers
- Implement appropriate looping and control structures to solve problems
- Implement and understand method overloading and method overriding
- Create test cases for programs written
- Read from files, iterate through the file and manipulate the data within the file

### **Attendance:**

Attendance is mandatory however I realize there are times when you must be absent. It is your responsibility to make up the work. Please give me advance notice of any absences, and I will provide you with the same courtesy.

Class consists of two lectures sessions on Monday/Wednesday 9 am – 9:50 am in FOR 106. The lab is from 9-9:50 pm on Thursday in FA 210 and 9-9:50 am Friday in NAC 014. You are also welcome to attend the 136's lab from 11-11:50 am on Thursday in LA 205 or 2-2:50 pm Thursday in LA 205. We will doing distributed pair programming in lab, so you will want to attend one of the lab sessions with a partner.

### **Grading:**

**Homework** 35%

**Labs** 20%

**2 Exams** 15% for each test

**Final Exam** 15% **Final: May 12<sup>th</sup>, 2017 10-12 pm**

**All Assignments will be submitted through Moodle assignments. If you have trouble with your submission, please send them to**

**michael.cassens@mso.umt.edu**

**Your subject must be CSCI 135 Assignment # (e.g CSCI 135 Assignment 1)**

**If you have multiple files, please zip all your files and label your file: "CSCI135LastNameAssignment1.zip"**

### **Grading Scale**

100-90 A, A-	79-70 C+, C, C-	59-and beyond F
89-80 B+, B, B-	69-60 D+, D, D-	

P/NP – pass/no pass, 70 or greater is passing determined by Computer Science Department policy, which is a C or better.

### **Late Assignments:**

- Late assignments will not be accepted. Sorry for the inconvenience.

### **Requirements**

- Required Texts:
  - **Java Software Solutions 8<sup>th</sup> edition – Lewis and Loftus**
- Pre-requisites for this course: CSCI 100
- Required Software:
  - **Java JDK**
  - **<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>**
  - **Eclipse**
    - **<http://www.eclipse.org/downloads/>**
    - **Get the IDE for Java Developers (should be on top)**

### **Suggestions:**

- It would be beneficial to read and ask as many questions as you can.
- Feel free to set up an appointment if you need help. I am here to help you understand and do well.

**Collaboration:**

- I encourage you all to work together through problems – make sure you comment who you worked with at the top of the page, but copying and plagiarism will not be tolerated. If you are caught cheating, I will give you an F for the course.
- Please refer to the Student Conduct Code in how this will be dealt with: [http://life.umt.edu/VPSA/student\\_conduct.php](http://life.umt.edu/VPSA/student_conduct.php)

**Incompletes:**

“Incomplete for the course is not an option to be exercised at the discretion of students. In all cases it is given at the discretion of the instructor...” Some guidelines for receiving an incomplete are listed in the catalog which include having **a passing grade up to three weeks before the end of the semester** and being in attendance. **“Negligence and indifference are not acceptable reasons.”** Also note that there may be financial aid implications.

**Late Drops:**

The University’s policy on drops after **45** days of instruction is very specific. The Computer Science Department follows this policy rigorously. There are five circumstances under which a late drop might be approved: registration errors, accident or illness, family emergency, change in work schedule, no assessment of performance in class after this deadline. Except in very unusual circumstances, I will only approve late drops if there is documented justification for one of these circumstances.

**Disabilities:**

This course is accessible to and usable by otherwise qualified students with disabilities. To request reasonable program modifications, please consult with the instructor. Disability Services for Students will assist the instructor and student in the modification process. For more information, visit the Disability Services website at <http://life.umt.edu/dss/>.

**Class Etiquette:**

- Be respectful of your fellow classmates.
- Call me anytime if you have a question.
- Profanity and Obscenity will not be tolerated in class or assignments.

**Special Dates:**

- Jan 23, 2017 Classes Begin
- Feb 20, 2017 President’s Day – No Class
- March 20<sup>th</sup>-24<sup>th</sup> – Spring Break
- May 8th-12th, 2017 Finals
- **Final: May 12<sup>th</sup>, 2017 10-12 pm**

## **Tentative Schedule:**

Syllabus Review and Overview of the course

Week 1 Chapter 1 Introduction of Computing Concepts

Week 2 Chapter 1 Introduction Cont. – Logical Reasoning

Week 3 Chapter 2 Data and Expressions

Week 4 Chapter 2 Data and Expressions cont.

Week 5 Chapter 3 Using Classes and Objects, Conditionals

Week 6 Exam 1 – March 1<sup>st</sup>, 2017, Review on Feb 27<sup>th</sup>

Week 7 Chapters Loops, 1, 2, 3 Graphics

Week 8 Chapter 4 Writing Classes

Week 9 Spring Break

Week 10 Chapter 4 Writing Classes cont.

Week 11 Chapter 5 Conditionals and Loops

Week 12 Exam 2 April 12<sup>th</sup>, 2017, Review April 10<sup>th</sup>

Week 13 Chapter 6 More Conditionals and Loops

Week 14 Chapter 7 Object Oriented Design

Week 15 Chapter 7 Object Oriented Design cont., Chapter 8, Review

Week 16 Final – Friday May 12<sup>th</sup>, 2017 10-12 pm