Fundamentals of Computer Science CSCI 136
Syllabus Spring 2016

CSCI 136-10
Instructor: George Lesica
Office: SS 401
Office Hours: After lab or by appointment
E-mail: george.lesica@umontana.edu
Meeting schedule:
   M, W @ 13:10-14:00PM in SS 344
   R @ 12:10-13:00 in LA 206
   F @ 13:10-14:00 in LA 206

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 a continuation of 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:

- Create UML diagrams based on requirement descriptions
- Be more proficient with reading and writing files
- Be proficient with using static and dynamic data structures
- 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
- Create Inherited class structures
- Leverage Inherited classes and Interfaces for Polymorphism
- Design and implement recursive algorithms
- Understand basic searching and sorting algorithms
- Make programs more robust with built-in and custom exception handling
- Create class libraries, add them to jar files and reuse them
- Create test cases and leverage them for programs written
- Understand linear and nonlinear data structures

Attendance:
Attendance is mandatory however I realize there are times when you must be absent. Please give me advance notice of any absences, and I will provide you with the same courtesy.
We will be doing some pair programming this semester, so it is vitally important that you attend lab. You are free to attend the "other" lab (the section for which you are not registered) as well to spend extra time on your assignments, but this is never required.

**Grading:**
Grades will be computed based on the following weights:

- Homework 30%
- Labs 25%
- Two exams 15% each (30% total)
- Final exam 15%

All Assignments will be submitted through Moodle assignments (once it is set up). If you have trouble with your submission, please email them to me at george.lesica@umontana.edu.

Your email subject must be "CSCI 136 Assignment #" (e.g "CSCI 136 Assignment 1")

If you have multiple files, please zip all your files and label your file: "CSCI136LastNameAssignment1.zip"

**Grading Scale:**

<table>
<thead>
<tr>
<th>Score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-90</td>
<td>A, A-</td>
</tr>
<tr>
<td>79-70</td>
<td>C+, C, C-</td>
</tr>
<tr>
<td>59-and beyond</td>
<td>F</td>
</tr>
<tr>
<td>89-80</td>
<td>B+, B, B-</td>
</tr>
<tr>
<td>69-60</td>
<td>D+, D, D-</td>
</tr>
</tbody>
</table>

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 8th edition – Lewis and Loftus
- **Pre-requisites for this course:**
  - CSCI 100
  - CSCI 135
- **Required Software:**
  - **Java JDK**
  - **Eclipse**
    - 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/](http://life.umt.edu/dss/).

**Class Etiquette:**
• Be respectful of your fellow classmates.
• Profanity and Obscenity will not be tolerated in class or assignments.

**Tentative Schedule:**
Week 1 Chapter 4 Review of CSCI 135  
Week 2 Chapters 5, 6, 7 Review of CSCI 135  
Week 3 Chapter 8 Arrays  
Week 4 Chapter 8 Arrays cont.  
Week 5 Chapter 9 Inheritance  
Week 6 Exam 1  
Week 7 Chapter 10 Polymorphism  
Week 8 Chapter 10 Polymorphism cont.  
Week 9 Chapter 11 Exceptions  
Week 10 Chapter 12 Recursion  
Week 11 Chapter 12 Cont.  
Week 12 Exam 2  
Week 13 Chapter 13 Data Structures  
Week 14 Chapter 13 cont., Databases, XML  
Week 15 Review and Wrap up  
Week 16 Final