COURSE SYLLABUS

Fall 2009 – October 27 – December 19, 2009 – A 8-week course

Reminder: *TIME FLIES, PROGRAMMING CAN BE TIME-CONSUMING!*

Class	**IS 115 – D3 -** Introduction to Programming
Room	ONLINE
Hours	24/7 Online & Room C119 – Henderson Camus – C Building
Instructor	Naser E. Heravi
Office	Henderson Campus - C201B
Office Hours	**by appointment, only**
Office Phone	651-3148 **Please use my e-mail as your first preference**
E-mail	ANGEL mail system Alternative – emergency use: citclass@gmail.com
Web site	http://sites.csn.edu/nheravi/

An Important NOTE: If you have any concerns about this course and/or me, please contact me first. If I cannot resolve your issue, please contact the CET department office at 651-4660 and speak to the department chairperson. You will remain anonymous and all communications will be strictly confidential. Please DO NOT wait till the last minute to make your concerns known to me and/or to the department chairperson.

"If you have a documented disability that may require assistance, you will need to contact the Disability Resource Center (DRC) for coordination of your academic accommodations. The DRC is located in Student Services on each campus. The phone numbers for each DRC office are: West Charleston 651-5644, Cheyenne 651-4045, and Henderson 651-3795.
For students that would like to perform community service or earn extra money, stop by the DRC to fill out a job interest card. This office hires students as note takers, proctors, scribes, and lab assistants as needed."
Students are encouraged to take advantage of the fantastic services offered by the CSN Retention Office. Retention offers:

- Free Guidance Appointments
- Faculty/Staff Mentors
- Tutoring Assistance (Student Coaches)
- College Survival Skills
- Learning the Ropes at CSN

The Retention Office will help you come up with practical solutions to any challenges you may encounter and get you connected to the right resources. The mission of the office is to help you stay in school and achieve your dreams for a brighter future. We are here to help you and work with you. Don't quit CSN before calling us!

Call 651-2626

Text book	**Starting out with Java Early Objects – 3rd edition**
Publisher/ISBN #	Scott Jones – 9780321497680
Reference books:	Murach's beginning Java-2 by Andrea Steelman/1-890774-12-X Java: How to Program, by Deitel & Deitel, Prentice hall
Sun Web Site:	http://java.sun.com/learning/tutorial/index.html

Reference books **ARE NOT required. You should be just fine with the assigned textbook. But if you need more, use this book and additional references.**

Software:

JDK (Compiler for Java from SUN): For this course, we will be using JDK 1.6 (Java Development Kit version 6.). It is free from the web site of SUN Microsystems: http://java.sun.com/javase/downloads/?intcmp=1281. Then click on "**Java SE Development Kit (JDK) 6 Update 16 (or any other update version)**" Download link, and proceed with the installation. (This web site has wealth of other resources; I encourage all of you to become familiar with it.) Sun Microsystems created the Java programming language. This website will give you the latest version of the JDK. **See the file Download_Install_ConfigureJava.pdf available through the Angel's system for step by step instructions.**

Note: Configuring the JDK installation and configuring the disk access path is straight forward for experienced programmers, but it can be challenging for beginners. Instructions on how to do this will be provided in class and can also be found at the following link: http://java.sun.com/javase/6/webnotes/install/

You may also use any other software that allows you to compile and run Java programs such as JGrasp, BlueJ, Visual Café, Borland JBuilder, etc. If you download the JDK from the web, you may also use the free version of TextPad. This software is available free from www.textpad.com

Course Description:

A first course in programming. Deals with the ideas of typical processes, internal computation, input/output, decision and control, and typical applications. Emphasizes problem solving methods and algorithm development.

Course Outcomes:

Upon completion of this course the student will be able to:

- Describe computer hardware and an operating system
- Develop algorithms in terms of pseudo codes and flow charts
- Design and code a program that processes user input and produces output. This program will perform simple input operations, formulation of mathematical formulas into the programming language and perform simple output operations.
- Design and code a program that uses basic arithmetic operations (add, subtract, multiply, divide). This

program will include the use of primitive variable types

- Design and code a program using IF statements in comparisons and using the WHILE and FOR statements in repetition. This program will demonstrate good structured programming practices.

Course Objectives:

The purpose of this course is to teach you the fundamentals of computer programming. It is assumed that the student has no previous programming experience, as this course will begin at the most basic level. By the end of the semester, the student should feel comfortable creating a program of substantial size.

Course Requirements:

Computer System Requirements:

The Java programs you write with this course can be run on any computer system (Windows, Mac, etc.). The ANGEL system is also supported by many of the popular Web browsers such as Internet Explorer, FireFox, Safari, etc. When downloading the JAVA SDK be sure to download the proper software for your platform. The JAVA SDK is available on many of the computers in all of the CSN computer labs. The ANGEL system will allow you to check your browser for compatibility. Please make sure to follow the instructions on checking your browser for use with ANGEL.

Tests - Grading Policy:

Your grade is based on a midterm exam, a comprehensive final exam, and homework assignments throughout the semester. Practice quizzes will also be offered throughout the semester, but no grade is assigned to these quizzes. The midterm is 30% of your grade, the final exam is 35% of your grade, and assignments are 35% of your grade. **There are NO MAKEUP exams.** Exams will be open during a period of time announced in advance. Homework assignments also have strict due dates. All exams may include True/False, Multiple choice, short answers, and Fill-in type questions.

Assignments:

Several assignments are given with **strict due dates. I may extend the due dates from time to time, if needed. However, I may impose a 10% late penalty on late assignments. PLEASE do not assume that you can turn in an assignment and take a late penalty.** You cannot learn programming in Java (as with any other language) without attempting the assignments.

TIME IS OF THE ESSENCE:

All exams are timed by the ANGEL system and the time limit for each exam will vary depending on the type of the exam.

ACADEMIC DISHONESTY:

According to the Schedule of Classes, "CSN demands a high level of academic behavior. Acts of academic dishonesty including plagiarism and cheating are regarded as very serious offenses." If academic dishonesty is discovered in this class, the student will receive a grade of "F" for the class.

INSTRUCTOR WITHDRAWAL OF STUDENT:

Any student who wishes to drop this class with a W (withdraw) will have till the end of the semester to do so. You MUST send me an e-mail message requesting to withdraw from the class. Otherwise, you will get the grade earned in the class. The subject of the e-mail must state: **WITHDRAW from the course**

NOTE: This withdrawal policy is my policy and does not adhere to the deadlines established by the admissions office. I will take care of entering a W for your grade if you decide to withdraw from the course.

Attendance:

Class participation is a strong aspect of this course and your participation is always encouraged**. You must post to a discussion thread at least 4 times a week on 4 different days to meet the attendance requirement. This must be done every week from the beginning to the end of the semester. Your grade will fall one letter grade if you do not adhere to this attendance policy. So, if you login on Monday and post 4 messages, you will not have met the attendance requirement.**

GRADE DISTRIBUTION:

Points	0% - 59%	60% - 64%	65% - 69%	70% - 74%	75% - 79%	80% - 84%	85% - 89%	90% - 100%
Grade	F	D	D+	C	C+	B	B+	A

We will cover the material in your textbook covering chapters 1 through 5 of your textbook. The date of each exam would be announced in the class discussion threads.

Here is a tentative schedule of activities:

Week	Topics	WHEN TO TAKE EACH TEST
1 10/27 – 11/2	Syllabus and Introduction Downloading and installing applications Getting to know the online environment Chapter 1 - Introduction to Computers and Java Algorithms	Quiz on the Course Syllabus Assignment 1 – Due 11/3/09
2 11/3 – 11/9	Chapter 2 – Java Fundamentals	
3 11/10 – 11/16	Chapter 2 – Java Fundamentals	
4 1/17 – 11/23	Chapter 3 - A First Look at Classes and Objects	Assignment 2 – Due 1/17/09 **MidTerm Exam - covers chapters 1 & 2 – Open 11/19 – 11/23**
5 11/24 – 11/30	Chapter 3 - A First Look at Classes and Objects	Assignment 3 – Due 12/1/09
6 12/1 – 12/7	Chapter 4 - Decision Structures	
7 12/8 – 12/14	Chapter 5 - Loops and Files	Assignment 4 – Due 12/8/09
8 12/15 – 12/18		Assignment 5 – Due 12/15/09 **Comprehensive Final exam open – 12/16– 12/19**

Exams can only be taken during the predetermined dates available through ANGEL. All assignments have specific due dates clearly stated in the text of each assignment.

There are 5 homework assignments worth a total of 500 points.
There is a midterm exam worth 100 points.
There is a final exam worth 100 points.

Here is a formula for how your final grade is calculated:

((Total of homework assignments) / 500 * 35 + Midterm * 0.3 + Final * .35)

So, if Joe gets a total of 400 points on the homework assignments, 75 points on the midterm, and 80 points on his final exam, what is his total score? What is his overall course grade?

Answer: ((400)/500*35 + 75*.3 + 80*.35) = 78.5
Letter grade: C

The ANGEL system's grade book will allow you to track your grade for each item.

Due dates for homework assignments are subject to change. I may periodically extend these due dates, if needed. I may also impose a 10% penalty for any approved late homework.

A NOTE on turning in material through the ANGEL system:

E-mail:

The Angel's e-mail system DOES NOT allow for sending any files with the .java extension. If you want to send me a .java source file, make a copy of the file and rename it with the same file name, but use the .txt extension. So, if your file name is: hw1.java, make a copy of the file and rename the copy to hw1.txt. This way, I can receive the file and will then provide my feedback in the same file. I will send you back the same file with the .txt extension. Once you receive it on your system, rename it back to hw1.java and you are now ready to look at my feedback and work on the file.

Assignments:

Write your java code for your assignments and use a compression utility to compress your files into a .ZIP or .RAR file. Let me know if you do not have access to a compression program. There are a few programs available for free through the Internet. DO NOT change the file extensions of your assignments to "txt", the compressed file will pass through the system. Make sure to follow the file naming conventions provided in the text of each assignment.

How to submit your assignment through the Angel system

Note: You must use your own software applications to complete the

assignments. When naming an assignment file, you must use the file naming convention provided by your instructor. Angel does not recognize file names with spaces, or characters that are not numbers or letters.

1. To upload completed assignments, click on the “Course Content” tab. Click on the “Assignments” link to see the list of assignment drop box links. Click the link for the assignment you would like to submit (for example, assignment 1).
2. Click on the “Attachments” button.
3. Click the “Browse” button and find the compressed file you want to send.
4. Select the “Upload File” button.
5. Click the “Finish” button. Make sure your attached file shows up on the screen.
6. Click the “Submit” button and you are all done.

The Assignments screen appears with the message Submitted appearing in the Status column. When the assignment has been graded, this message changes to a Graded link. Click the Graded link to view your grade and any instructor comments.

If for any reason, you cannot submit your file through this interface, simply e-mail me your file through the Angel e-mail system. Of course, if all fails, you can still submit tour assignment through my alternate e-mail address at cit_class@gmail.com