

COURSE SYLLABUS

Spring 2010 – January 19 – May 15, 2010 – A full term course

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

Class	IS 115 – D1 - 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	Tuesdays, 12:00 pm – 5:00 pm
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.

My responsibilities:

1. I will reply to your e-mail messages within one day. Replying to phone calls may take at most two days.
2. I will make sure to accommodate all your learning needs and will answer your questions in a timely manner.
3. I will try my best to resolve any issues.
4. I will return feedback and your grade on assignments within one week of the due date.

Your responsibilities:

1. Stay active in classroom discussions and activities. Let me know if you find any discrepancies in the syllabus, course material, or activity due dates, as soon as possible.
2. Watch the deadlines for exams and ask questions.
3. Do the best you can in the class and don't hesitate to ask for help.
4. You will review my feedback on your assignments and will let me know of any questions or concerns as soon as possible.

A note on the online environment: In an effort to stay on task, I release chapter material and assignments on a timely basis. The midterm and the final can only be taken during the scheduled period. If you like to get these material earlier than the rest of the class, send me an e-mail message and I will give you access to this material. The links to assignments and exams will disappear after their respective due dates. Some students

have complained that some links disappear from time to time. This is most likely due to system issues or incompatibility with your web browser. Please send an e-mail message informing me about any links that have disappeared from your view.

DROP in sessions – There are 3 sections of IS115 that are offered in class. You are welcome to attend any or all of these sessions as you wish. **This is NOT mandatory.** I think attending live sessions and getting answers to your questions might be beneficial even though you are attending this online course.

IS115-001 – Cheyenne campus – 6:00 – 8:50 pm – Thursdays – Room 2658 – Professor Alok Pandey – alok.pandey@csn.edu

IS115-801 – West Charleston campus – 11:00 – 1:50 pm – Saturdays – Room C114 – Professor Ayren Lytle – ayren.lytle@csn.edu

IS115-802 – West Charleston campus – 6:00 – 8:50 pm – Wednesdays – Room C132 – Professor Dale Tripp – dat7719@daletripp.com

If you decide to attend any of these sessions, all I need from you as an e-mail message to me and to the professor teaching the course that you will be attending a particular session. When you arrive at the classroom, introduce yourself to the instructor as one of my students. They have the right to refuse your attendance if their classroom is full (or, for any other reason). Please let me know of any issues and I will intervene.

"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
Publisher/ISBN #

Starting out with Java Early Objects – 3rd edition

Pearson-Addison Wesley – 9780321497680

www.aw-bc.com/computing

NOTE: There is another version of this textbook that starts with control structures and that book may have a different edition number. These versions are different mostly in the order of the topics covered. Using E-books are just fine. If you happen to choose a different version (price, etc.), you have to coordinate with me if I assign exercises from the textbook. You are also responsible

for following along between the different versions.

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:

Please note that the JDK has been installed and configured on many of the computers in all computer labs. Ask the lab assistants for location of computers with JDK installed. For using the JDK from home, office, etc. follow the notes, below.

JDK (Compiler for Java from SUN): For this course, we will be using JDK (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 17 (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. Java is available for many platforms (Windows, Mac, etc.), so pick your own platform when you choose the download file.

IMPORTANT: See the file **Download_Install_ConfigureJava.pdf** available from "Lectures and Files" link for complete instructions to configure Java on your Windows system. Please let me know if you plan to use Java on any other platform. Then click on the "Configuring java" link and follow the 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. I highly recommend the use of TextPad to write, compile and run your Java programs. This is an easy to use integrated development environment (IDE) to develop Java programs. Download Textpad after you have successfully installed the JDK on your system.

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 2 term exams, a comprehensive final exam, and homework assignments throughout the semester. Practice quizzes (chapter questions) will also be offered throughout the semester, but no grade is assigned to these chapter questions. Exam 1 is 15% of your grade, exam 2 is 15 % of your grade, and 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.

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 1/19 – 1/25	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
2 1/26 – 2/1	Chapter 1 Algorithms	Assignment 1 on chapter 1 and algorithms – Due 2/2/10
3 2/2 – 2/8	Chapter 2 – Java Fundamentals	
4 2/9 – 2/15	Chapter 2 – Java Fundamentals	
5 2/16 – 2/22	Chapter 2 – Java Fundamentals	Assignment 2 chapter 2 – Due 2/23/10
6 2/23 – 3/1	Chapter 3 - A First Look at Classes and Objects	Exam 1 - covers chapters 1 & 2 – Open one time - 2/23 – 3/1
7 3/2 – 3/8	Chapter 3 - A First Look at Classes and Objects	
8 3/9 – 3/15	Chapter 3 - A First Look at Classes and Objects	
9 3/15 – 3/21	SPRING BREAK	NO CLASS activities
10 3/23 – 3/29 Date gap due to the spring break	Chapter 3 - A First Look at Classes and Objects	Assignment 3 chapter 3 – Due 3/30/10
11 3/30 – 4/5	Chapter 4 - Decision Structures	Exam 2 - covers chapter 3 – Open one time – 3/30 – 4/5

12 4/6 – 4/12	Chapter 4 - Decision Structures	
13 4/13 – 4/19	Chapter 4 - Decision Structures	Assignment 4 on chapter 4 – Due 4/20/10
14 4/20 – 4/26	Chapter 5 - Loops and Files	
15 4/27 – 5/3	Chapter 5 - Loops and Files	
16 5/4 – 5/8	Chapter 5 - Loops and Files	Assignment 5 on chapter 5 – Due 5/9/10
17 5/9 – 5/11	Final exam week	Comprehensive Final exam open one time – 5/9 – 5/11

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:

$((\text{Total of homework assignments}) / 500 * 35 + \text{Midterm} * 0.3 + \text{Final} * .35)$

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:

In case you need any help in debugging your programs, feel free to send me your Java source code (.java) file via e-mail. I will provide any feedback and send you any updates via e-mail.

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 that allows you to compress your files. This is a requirement, so let me know if you are unable to compress your assignment files. 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). In the title box, state only the assignment number that you are turning in. For example, Assignment 1. Avoid any other text in the title. This makes my grading life easier which should make allow me to be easier on grading your programs.
2. Click 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 your assignment through my alternate e-mail address at citclass@gmail.com