CSC-K108 Introduction to Programming

Course Syllabus

Semester: Spring 2018

Instructor: Dr. Joseph Johnson
Email: jjohnson@threerivers.edu

Course Meeting Times: ONLINE – Lectures and assignments made available on Monday mornings.

Office Hours: See virtual office hours

Phone: N/A

Required interactive textbook: Programming in Java with zyLabs, http://zybooks.com/

Instructions from the publisher, zyBooks, are as follows:

1. Sign up at zyBooks.com
2. Enter zyBook code **TRCCCSCK108JohnsonSpring2018**
3. Click Subscribe

Programming in Java with zyLabs is an interactive online textbook that is required for this course. As you move through the zyBook, you will complete Participation and Challenge Activities that will help you learn the material. The best way to learn programming is by doing, and the zyBook material, and assignments are selected accordingly. It is extremely important to keep up with the assigned readings during this course. The cost for the text is $77. Student subscriptions are valid through 06/14/2018.

Course Description: Fundamentals of programming and program development techniques. Topics include problem solving, syntax, variables, data types, statements, functions, selection, repetition, references, arrays, and program structure.

Course Objectives

- To provide the student with a broad introduction to computer science including computer design, programming, information processing and algorithmic problem solving.
- Upon successful completion of this course, the student will be able to:
    - Plan, design, code, test, and debug solutions to programming problems using the Java programming language
    - Use variables of types built in to the language, operators, and library functions in their programs
    - Use input and output streams to write interactive programs
    - Use relational expressions to accomplish selection, and loops to enable repetition in their programs.
    - Write their own methods, thus finding the solution of more complex problems, using the principle of breaking a large problem into smaller sub-problems
    - Use more advanced data structures, such as arrays in their programs

Course Evaluation: Course evaluation will be based on computer assignments, quizzes, frequent and meaningful participation in discussions, and the final project. The final grade for this course will be determined by the following percentages:

Reading Assignments	10%
Video Assignments	10%
Programming Assignments	50%
Mid-term Exam	15%
Final Exam	15%

Reading Assignments: As explained above, zyBooks contains Participation and Challenge activities. Your effort on these exercises will be recorded within zyBooks and will be graded, counting 10% toward your overall grade. These reading assignments will be posted in BBLearn.

Video Assignments: Each lecture includes a collection of video segments, each video ranging in length from about 4 minutes to 12 minutes. Most lectures consist of between 10 and 15 video segments. It is important for your success in the course that you view these videos as there is material and examples covered in the videos not covered in the text that you'll be expected to know in your programming assignments and on the midterm and final exams. Video viewing assignments will be posted in BBLearn. Your video viewing will be verified through the tracking functionality built in to BBLearn.

Programming Assignments: There are seven class programming assignments that will be posted as we proceed through the course in BBLearn that you must complete and submit to the zyBooks lab environment. (Detailed instructions will be given in the first lecture on how to do this.) They must be submitted by the due date posted in the assignment. Late work will not be accepted. The lowest assignment grade will be dropped. It is generally recommended that you write your code in the Eclipse environment (we'll discuss the Eclipse software in the first lecture) and then copy your code into zyBooks. Writing your code in Eclipse first (instead of directly into zyBooks) will afford you the benefits that Eclipse provides when writing Java code. We'll talk about these benefits more in the course.

Exams: Exams will be conducted online in multiple-choice format and will cover material covered in the text, assignments, and presentations.

Course grades: Grades will be assigned as objectively as possible, according to the following scale (with plus or minus, as appropriate):

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
59% and Below	F

Contacting Me: The best way to reach me is through email. However, I will also be monitoring the Discussion boards, where it is encouraged that you post questions to the entire class so that others can benefit from the discussion, as well. (Please don't post code, though!)

Withdrawing from the course: A student who simply stops submitting work will receive the grade earned on that work, usually a failing grade. To receive a "W" grade instead, apply for a withdrawal through the registrar's office by May 4th. A "W" will be entered on the student transcript but will not be included in the calculation of the GPA.

Course Outline

Week	Reading Assignment (zyBooks text)	Topic	Video Assignment	Programming Assignment (zyBooks text)
01/17	Chapter 01	Introduction to Java	Lecture 01	zyBooks Lab 1
01/22	Chapter 01	Introduction to Java	Lecture 02	
01/29	Chapter 02	Variables/Assignments	Lecture 03	zyBooks Lab 2
02/05	Chapter 02	Variables/Assignments	Lecture 04	
02/12	Chapter 03	Branches	Lecture 05	zyBooks Lab 3
02/19	Chapter 03	Branches	Lecture 06	
02/26	Chapter 04	Java Functions	Lecture 07	zyBooks Lab 4
03/05	Chapter 04	Java Functions	Lecture 08	
03/12	**Spring Break**	**********	**********	**********
03/19-03/21		**Midterm Exam (online)**		
03/26	Chapter 05	Loops	Lecture 09	zyBooks Lab 5
04/02	Chapter 05	Loops	Lecture 10	
04/09	Chapter 06	Methods	Lecture 11	zyBooks Lab 6
04/16	Chapter 06	Methods	Lecture 12	
04/23	Chapter 07	Arrays	Lecture 13	zyBooks Lab 7
04/30	Chapter 07	Arrays	Lecture 14	
05/07-05/09		**Final Exam (online)**		

Note: This course outline is subject to change as conditions warrant.

Academic Integrity: Students are expected to do their own work in this class. Working together to better understand the material is acceptable. Submitting duplicate work is not and will adversely affect the assignment grade. Actively participating in the discussion boards both to ask and to answer questions is expected of all students. Posting of detailed instructions for "how to" responses to questions is encouraged but posting of a complete solution is not. Example violations include but are not limited to:

- Copying or sharing a file or any portion of a file from another student.
- Sharing or allowing another student to copy your files or any portion of a file.
- Duplicating or distributing copies licenses for software programs and/or services.

Students with Disabilities: If you are a student with a disability and believe you will need support services and/or accommodations for this class, please contact the Disabilities Support Services at Eastern Connecticut State University. Please note that the instructor cannot provide accommodations based upon disability until the instructor has received an accommodation letter from the Disabilities Counselor.

Sexual Misconduct:

BOARD OF REGENTS FOR HIGHTER EDUCATION AND CONNECTICUT STATE COLLEGES AND UNIVERSITIES POLICY REGARDING SEXUAL MISCONDUCT REPORTING, SUPPORT SERVICES AND PROCESSES POLICY

Statement of Policy for Public Act No. 14-11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:
"The Board of Regents for Higher Education (BOR) in conjunction with the Connecticut State Colleges and Universities (CSCU) is committed to insuring that each member of every BOR governed college and university community has the opportunity to participate fully in the process of education free from acts of sexual misconduct, intimate partner violence and stalking. It is the intent of the BOR and each of its colleges or universities to provide safety, privacy and support to victims of sexual misconduct and intimate partner violence."

UNITED STATES DEPARTMENT OF EDUCATION AND OFFICE OF CIVIL RIGHTS TITLE IX STATEMENT OF POLICY:

"Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in education programs and activities in federally funded schools at all levels. If any part of a school district or college receives any Federal funds for any purpose, all of the operations of the district or college are covered by Title IX.

Title IX protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students (as well as other persons) at recipient institutions are protected by Title IX – regardless of their sex, sexual orientation, gender identity, part-or full-time status, disability, race, or national origin-in all aspects of a recipient's educational programs and activities."

If any student experiences sexual misconduct or harassment, and/or racial or ethnic discrimination on Eastern Connecticut State University campus, or fears for their safety from a threat while on campus, please contact the Diversity Officer and Title IX Coordinator.