CSC108 - Introduction to Programming

Course Syllabus

Semester: Spring 2013

Instructor: Allan Anderson & Joseph Johnson

Contact Methods: Blackboard Learn Messaging (preferred) *or* aanderson@trcc.commnet.edu &
jjohnson@trcc.commnet.edu (emergency only) for private (student to instructors)
communications

Online Discussions: will be available for all learning topics – this is the primary class
communication method

Campus Office Hours: Anderson - Tuesday (1:30 pm - 2:30 pm, 4:30 pm – 5:30 pm)
                                Anderson - Thursday (1:30 pm - 2:30 pm)
                                Johnson - Tuesday (1:30 pm - 2:30 pm)
                                Johnson - Thursday (1:30 pm - 2:30 pm)

Campus Office: Room Anderson - C/106, Johnson – C/162

Campus Phone: Anderson - (860) 885-2392, Johnson – (860) 823-2818 (both with voice mail)
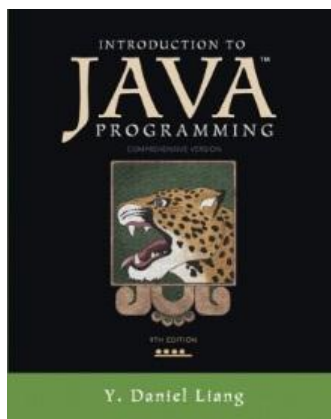
Instructor Response Time Objectives: Mail messages - 48 hours or less weekdays, 72 hours or
                                less weekends

                                Discussion posts - 24 hours or less weekdays, 48 hours or
                                less weekends

                                Assignment grading – 1 week or less from due date (no
                                assignments are graded before the
                                due date)

                                Phone messages – 72 hours or less weekdays, 96 hours or
                                less weekends

Required Text:

Introduction to Java Programming, Comprehensive Version, 9th
Edition, by Y. Daniel Liang, Prentice Hall Publishing, Copyright
Year 2013. The Student Resource website, containing additional
information including examples source code, solutions to even
numbered problems, and links to software, is located at:
http://www.cs.armstrong.edu/liang/intro9e.

This textbook is sold through the Three Rivers bookstore (ISBN-
10: 0132936526 • ISBN-13: 9780132936521) bundled with the
access code for the Prentice Hall Companion Website.

You will need the Java Development Kit (JDK) installed on your
computer. The Eclipse integrated development environment (IDE)
will also need to be installed. Installation instructions will be
provided but no software installation support is provided by TRCC
faculty or staff.

Supplies and Materials: Removable storage device (memory stick, aka travel drive, USB drive, etc.) for students requiring use of on-campus computer labs for course completion

Course Description: Fundamentals of programming and program development techniques. Topics include data types, functions, storage class, selection, repetition, pointers, arrays, and file processing.

Course Objectives

o   To provide the student with guidelines for appropriate electronic communication techniques in a business/academic environment and the opportunity to use these techniques for class activities throughout the semester.
o   To provide the student with a broad introduction to computer science including computer design, programming, information processing and algorithmic problem solving.
o   Upon successful completion of this course, the student will be able to:
   o   Plan, design, code, test, and debug solutions to programming problems using the Java programming language
   o   Use variables of types built in to the language, operators, and library functions in their programs
   o   Use input and output streams to write interactive programs
   o   Use relational expressions to accomplish selection, and loops to enable repetition in their programs.
   o   Write their own methods, thus finding the solution of more complex problems, using the principle of breaking a large problem into smaller sub-problems
   o   Use more advanced data structures, such as arrays and Strings in their programs
   o   Write programs using external files and streams to store and retrieve data

Course Pace: Although there is flexibility in when the student works on this course, it is not self-paced. Assignments, with due dates, will be released throughout this fall session. Quizzes/tests will be available immediately after assignments are due and are available for a limited time only.

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:

Homework Assignments	60%
Mid-term Exam	15%
Final Exam	15%
Discussion Participation	10%

Class Assignments: Class assignments should be submitted on or before the due date and time. An assignment will lose 10% of the score for that assignment if submitted late. No assignments will be accepted after the cutoff date. Assignments will be graded on professionalism, accuracy, style and completeness. The details for each assignment, including work to be done and the due date and cutoff date, will be posted in that assignment's description in Blackboard.

Quizzes: Exams will include multiple-choice questions and programming projects and will cover material from 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

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 13th. A "W" will be entered on the student transcript but will not be included in the calculation of the GPA.

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:

o Copying or sharing a file or any portion of a file from another student.
o Sharing or allowing another student to copy your files or any portion of a file.
o 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 TRCC. Please note that the instructor cannot provide accommodations based upon disability until the instructor has received an accommodation letter from the Disabilities Counselor.

Course Outline

Week	Topics	Approximate Assignment Due Dates (check online for actual)	Text Assignments
	Pre-Assignment	1/25	none
1	Introduction to Computers, Programs, and Java	2/1	Chapter 1, pp. 1 - 32
2	Elementary Programming	2/8	Chapter 2, pp. 33 - 80
3-4	Selections	2/22	Chapter 3, pp. 81 - 131
5-6	Loops	3/8	Chapter 4, pp. 133 - 175
7	Mid-Term Exam	3/15	
8-9	Methods	4/5	Chapter 5, pp. 177 - 222
10-11	Single-Dimensional Arrays	4/19	Chapter 6, pp. 223 - 262
12	Objects and Classes	4/26	Chapter 8, pp. 295 - 334
13	Strings	5/3	Chapter 9, pp. 335 - 368
14	Selected Other Topics (like File I/O)	5/10	To be determined
15	Final Exam	5/17	

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