

CSC-K223 – Java Programming 1

Course Syllabus

Semester: Fall 2018

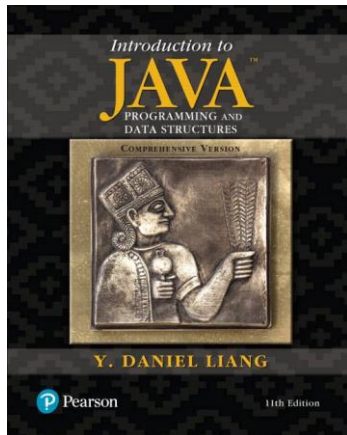
Instructor: Soumyashree Sahoo

Email: SSahoo@trcc.commnet.edu

Course Meeting Times: ONLINE

Campus Office Hours: Tuesdays 3.15-6.15 pm at Soumyashree S. Office C-106

Required Text:



Introduction to Java Programming, Comprehensive Version, 11th Edition, by Y. Daniel Liang, Prentice Hall Publishing, Copyright Year 2017. The Student Resource website, (requires the access code, see below) containing additional information including examples source code, solutions to even numbered problems, and links to software, is located at:

https://media.pearsoncmg.com/ph/esm/ecs_liang_ijp_11/cw/login/sign-in.php?dest=https://media.pearsoncmg.com/ph/esm/ecs_liang_ijp_11/cw/index.php

This textbook is sold through the Three Rivers bookstore (ISBN-13: 978-0134670942) bundled with the access code for the Prentice Hall Companion Website. It is not absolutely necessary to purchase the bundle – the textbook by itself will suffice, although you won't be able to access the online resources described above.

In this course, we will be using a software program called Eclipse that will facilitate building Java programs. Eclipse is an integrated development environment, or IDE. We will review the installation of this software in the first class. Eclipse is already installed on the workstations in the open lab (E112).

Course Description: This course expands coverage of programming concepts not covered in the Introduction to Programming course, including (but not limited to) such topics as object-oriented

programming (classes, objects, inheritance, polymorphism, composition, aggregation, interfaces vs. implementations, etc.), web crawling, text manipulation using the String API, and exceptions.

Course Outcomes

At the conclusion of the course, the student should be able to:

- Construct an object-oriented design for a given programming problem by analyzing the problem domain – breaking the domain into its components and the relations between them – and then building object-oriented software whose components mirror these relationships.
- Arrive at the most effective solution architecture for a given software problem by analyzing various alternatives and arriving at a cohesive architecture based on well-supported inferences based on the nature of the problem, the features of the programming platform, and the required development time and user constraints.
- Successfully argue for the most effective solution to a programming problem, as needed when working with other members of a programming team.
- Understand the concept of recursion and be able to apply it judiciously in programming solutions by evaluating contexts in which recursion is appropriate vs. the alternative technique of iteration (looping). The student will be able to evaluate various programs using both alternatives to arrive at an evidence-based approach for deciding on the most appropriate technique.

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. No assignments will be accepted after the due date. The lowest assignment grade will be dropped when calculating the final grade for the course. Assignments will be graded on accuracy, style and completeness (both program code and output are required for assignments). 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.

Exams: There will be midterm and a final for the course, both in multiple-choice format, conducted online, based on the material covered in class (and presented in the text).

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. 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:

- 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 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

Topics	Week Of	Text Assignments
Review: Java Fundamentals – Part 1	08/28	Chapters 1 - 4
Review: Java Fundamentals – Part 2	09/03	Chapters 5 - 8
Objects and Classes – Part 1	09/10	Chapter 9
Objects and Classes – Part 2	09/17	Chapter 9
Thinking in Objects – Part 1	09/24	Chapter 10
Thinking in Objects – Part 2	10/01	Chapter 10
Inheritance	10/08	Chapter 11
Polymorphism	10/15	Chapter 11
Midterm Exam (online)	10/22	
Exception Handling	10/29	Chapter 12
Text I/O	11/05	Chapter 12
Abstract Classes and Interfaces	11/12	Chapter 13
Java FX Basics	11/19	Chapter 14
Event-Driven Programming and Animations	11/03	Chapter 15
Review	11/10	
Final Exam (online)	11/17-11/20	

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

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 Three Rivers Community College Campus, or fears for their safety from a threat while on campus, please contact Edward A. Derr, the Diversity Officer and Title IX Coordinator:

Edward A. Derr
Title IX Coordinator and Diversity Officer

Admissions Welcome Center * Office A116
574 New London Turnpike, Norwich CT 06360
860.215.9255 * EDerr@trcc.commnet.edu