CS212 Computer Programming II
Course Syllabus, Spring 2018

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Classroom: Blocker 12
Meeting time: MW 1:00pm - 2:15pm
Office hours: TT 2:15PM - 4:45PM, W 3:45PM - 4:45PM, and by appointment

Catalog description: A continuation of CS 112, topics include advanced programming design in user-defined data types, arrays, structures, pointers, array-based lists, binary searching, recursion, and introduction to object-oriented programming techniques. Prerequisite: CS 112 or consent. Offered each spring.

Textbook: Wang, Java Programming and Applications, Publishing House of Electronic Industry, China, 2014.
Reference: Savitch, *Java*: *An Introduction to Problem Solving & Programming*, 6th Edition. Pearson/Prentice Hall. ISBN 978-0-13-216270-8.

Course goals:
1. To learn more about Java programming techniques.
2. To learn the object-oriented programming design.
3. To develop better problem-solving capabilities.
4. To possess the potential to learn new OOP languages.

Teaching:
1. Classroom lecturing on programming theory, techniques and principles.
2. Lab on programming being integrated with classroom teaching.
3. A few of lectures and/or tests being conducted electronically (through Web tools)

Evaluation:
1. There will be about 10 assignments. The assignment should be submitted before the due date. Otherwise, a zero credit will be recorded.
2. There will be two tests and a final (comprehensive) exam. There may be mini-tests and quizzes if needed. NO MAKE-UP tests will be given. Please do NOT try to take it early or late also, especially the final exam.

Grading strategies**:**
1. Assignments, quizzes, and participations have a weight of 30%.
2. Tests have a weight of 35%.
3. The final exam has a weight of 35%.

The final score will be calculated as a percentage of points earned versus total points possible, with the final letter grade being assigned according to the scale as follows:

A (93 or above)   A- (90 – 92)
B+ (87 – 89)   B(83 – 86)   B- (80 – 82)
C+ (77 – 79)   C (73 – 76)   C- (70 – 72)
D+ (67 – 69)   D (63 – 66)   D- (60 – 62)
F (59 or less)

Attendance is *required*. A maximum of three absences (without valid reasons) will be excused, and excessive absence will reduce your grade one letter for each absence.

Virginia Wesleyan University is committed to giving all students the opportunity of academic success. If you are a student who is requesting accommodations based on the academic impact of a disability, speak to me about your accommodations letter and your specific needs. If you do not have an accommodation letter for this course, you will need to visit or call for an appointment with Disability Support Specialist Crit Muniz at (757) 233-8898 or by email at nmuniz@vwu.edu to coordinate reasonable accommodations. He is located in the Learning Center, Clarke Hall.

Course Outline

Week	Date	Contents
1	01/29, 01/31	Review – Java I/O, selections, loops, Strings
2	02/05, 02/07	Static methods
3	02/12, 02/14	Arrays in methods
4	02/19, 02/21	Classes – *TimeType* class
5	02/26, 02/28	*Fraction* class. *Test IA*
6	03/05, 03/07	More on classes
7	03/12, 03/14	The List class, selection sort
8	03/19, 03/21	Review, *Test IB*
	(03/26 - 03/30	Spring Break)
9	- 04/04	More on the list class
10	04/09, 04/11	the sorted list.
11	04/16, 04/18	OOP super/sub classes
12	04/23, 04/25	More on OOP. Recursion.
13	04/30, 05/02	More on recursion. *Test II*
14	05/07, 05/09	Linked lists

Test IA: Wednesday, February 28
Test IB: Wednesday, March 21
Test II: Wednesday, May 2
Exam: 3:00pm-5:30pm Monday, May 14, 2018