CSS 142 Computer Programming I

University of Washington Bothell
Autumn 2017

Lecture: M-W 1:15-3:15, UW2-141 **Lab**: F 8:45-11:15, 11:30-2:00 or 2:30-5:00 UW1-220

Professor: Dr Yusuf Pisan Email: pisan@uw.edu
Office: UW1-260Q Phone: 425.352.3741
Office Hours: M 11:00-12:00 and by appointment

Textbook: Savitch, Walter, Absolute Java, 6th Edition, Pearson, 2016, ISBN 0134041674.
http://alliance-primo.hosted.exlibrisgroup.com/UW:all:CP71227779230001451

Grading: Assignments: 35% (8 assignments, each worth 5%, drop lowest mark)
Midterms: 40% (20% each)
Comprehensive Final Exam: 25%
* All assignments due 15 minutes before class via canvas
* Rough guide for converting points to grades: 95% is 4.0 and 60% is 0.7
* You must receive a grade of 2.7 (roughly 82%) in CSS 142 to take CSS 143.

CSS 142 Computer Programming I (5) NW, QSR
Introduces programming concepts within social, cultural, scientific, mathematical, and technological context. Topics include programming fundamentals (control structures, data types and representation, operations, functions and parameters), computer organization, algorithmic thinking, introductory software engineering concepts (specifications, design, testing), and social and professional issues. Co-requisite: CSSSKL 142.

Learning Objectives: 1) Develop competencies associated with problem-solving, design, programming, and testing techniques. 2) See common applications and consider these applications in society. 3) Learn and use good software engineering and algorithm analysis techniques. 4) 4) Become proficient in using Java for programming.

Policies: No electronics in class other than designated in-class exercises. If you need an exception, please come and talk to me. I am flexible, but research is clear that people are bad at multitasking, laptops are bad for taking notes, and social media can be infinitely distracting.

I am available in-person during office hours and online via #slack for virtual office hours as well as via email. In all cases, you must put in some effort to find an answer (google, discussion board posting, #slack question, talk to friends, read the syllabus, ...) before you contact me.

Values

Inclusiveness: You are expected to treat your instructor and all other participants in the course with courtesy and respect. Class rosters have student's legal name, but if you prefer an alternate name or gender pronoun, please let me know. I provide online and offline opportunities for you to participate. Collaboration is an important component for this course. If there is anything preventing your effective collaboration, please come and talk to me.

Integrity: You are expected to be resourceful, google for information, ask questions on Slack and be an active participant in class. When you copy code that you find online, you should reference the URL in comments. Copying more than a few lines would be considered plagiarism with or without any references. If in doubt, please ask me. Class work is often collaborative. Labs, Assignments, Midterms and the Final has to be completed individually. In general, you can talk about code, but you should not look at each other's code. Academic Misconduct will be reported
https://www.uwb.edu/studentaffairs/studentconduct/student-misconduct/academic-misconduct

Responsibility: You are expected to attend all classes and actively participate in class exercises. If you cannot attend due to unforeseen circumstances, let me know via email. Late assignments are not accepted. If you miss a midterm or final, you need to provide documentation of the unforeseen circumstances to receive accommodation. Having to go to work, sleeping in, missing the bus are not considered valid excuses. Unforeseen circumstances would include (but are not limited to): serious illness or psychological condition, loss or bereavement, hardship or trauma

Expectations for success: As with most technical courses, besides ability and motivation, it takes time to learn and master the subject. Expect to spend an average of 10 to 15 hours a week outside of class time for this course; some of you may spend more time, some less time.

Please see "Common Course Policies for the School of STEM" http://www.uwb.edu/getattachment/stem/about/stem-policies/classroom-policies-stem-fc-1-12-17.pdf which has additional information on Academic Integrity, Access and Accommodations, Classroom Emergency Preparedness, For Our Veterans, Grade of Incomplete, Inclement Weather, Parenting Resources, Respect for Diversity. Student Support Services, Wondering How to Address Faculty?

Tools & Web Pages

Canvas - https://canvas.uw.edu/ Syllabus, place to upload assignments, announcements, grades, Panopto recordings of lectures (maybe)
BlueJ - IDE (Integrated Development Environment) for writing, compiling and debugging Java programs. You can use an alternate IDE, if you have a preference.
#slack - http://css-uwb.slack.com - Discussions, weekly feedback
Google Drive - http://bit.ly/css142Autumn2017- Lectures, class exercises, labs

GitHub - https://github.com/pisanuw/css142/ - Code repository
and others ….

CSS 142: Weekly Schedule*

Week	Date	Topic	Deliverables
1	27 Sep	Introduction to Java, Expressions, Assignments	
2	2 Oct 4	String Class & Program Style (Read: Ch 1) Console Input Output (Read: Ch 2)	-- Ass#1
3	9 11	Flow of Control - Branching (Read: Ch 3.1-3.2) ...continued...	-- Ass#2
4	16 18	Software Engineering Ethics I (Read: Ch 3.3-3.4) Loops & Debugging	-- Ass#3
5	23 25	Review for Midterm Midterm #1	-- **Midterm #1**
6	30 1 Nov	File I/O (Read: Ch 9.1, 10.1-10.3) ...continued...	-- Ass#4
7	6 8	Arrays (Read: Ch 6.1-6.3) Class Definitions (Read: Ch 4.1, 6.4)	-- Ass#5
8	13 15	Review for Midterm Midterm #2	-- **Midterm #2**
9	20 22	Information Hiding (Read: Ch 4.2- 4.4) ...continued...	-- Ass#6
10	27 29	Fun with Arrays and Loops Software Engineering Ethics II	-- Ass#7
11	4 Dec 6	Problem Solving Review for Final	-- Ass#8
12	11 13 Dec	-- **Final Exam. Wednesday 1:15-3:15**	

*The syllabus is guide to your learning journey. As with most journeys, there will be detours, so expect changes to be made.