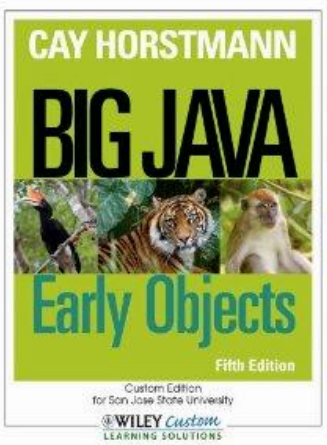
GENERAL INFORMATION FOR CS &141



COURSE DESCRIPTION: Introduction to Java programming. Topics include basic Java syntax, data types, control structures, methods, object representation using classes, graphics, applets and arrays, all within a framework of general object oriented programming principles.

COURSE OBJECTIVES: Upon successful completion of this course, the student should be able to:

- Use the basic constructs of the Java programming language to write a correct, efficient and maintainable application program.
- Analyze real-world problems in quantitative terms and formulate programming solutions.
- Describe object-oriented concepts and structures in Java.
- Design and implement algorithms typically used in computer programming.
- Work cooperatively in small groups to design, implement and test a program.

PREREQUISITE: CS 115 or equivalent with a grade of 2.5 or higher, or instructor's permission.

MEETINGS: MTWTh 11:30-12:20 in ALD 105 and TuTh 12:30-1:20 in ALD 105.

OFFICE HOURS/CONTACT:

Office: ALD 269; phone: (425) 640-1861; e-mail: nculevsk@edcc.edu.
Office Hours: MTW 9:30-10:20, TuTh 1:30-2:40 or by appointment.

REQUIRED TEXTBOOK:

Big Java (http://www.horstmann.com/bigjava5.html), 5th edition, by Cay Horstmann (John Wiley & Sons, 2014, ISBN-13: 978-1-1184-3111-5). [Note: There is a new 6th edition of this text, but we will use the 5th in order to reduce cost].

FREE eBOOK (not required, also helpful): http://math.hws.edu/javanotes/index.html

GRADING RULES:

1. Two Exams . 50%
2. Three Projects. 50%
3. Grades – see to the right.
4. No incompletes will be given unless there are EXTRAORDINARY circumstances.
5. There are no make-up exams, unless you provide prior notification and verifiable, written evidence for serious medical emergency.
6. Extra credit problems may be assigned (these are optional, but you should try them).
7. As instructor, I reserve the right to change any of the above rules at any time (however, I most probably won't).

Lower Bound %	Grade Point	Lower Bound %	Grade Point	Lower Bound %	Grade Point	Lower Bound %	Grade Point
95.0	4.0	84.2	3.1	73.4	2.2	62.6	1.3
93.8	3.9	83.0	3.0	72.2	2.1	61.4	1.2
92.6	3.8	81.8	2.9	71.0	2.0	60.2	1.1
91.4	3.7	80.6	2.8	69.8	1.9	59.0	1.0
90.2	3.6	79.4	2.7	68.6	1.8		
89.0	3.5	78.2	2.6	67.4	1.7		
87.8	3.4	77.0	2.5	66.2	1.6		
86.6	3.3	75.8	2.4	65.0	1.5		
85.4	3.2	74.6	2.3	63.8	1.4		

EXAMS/LABS/HMW/PROJECTS:

1. There are two exams: a mid-term and a final. Together they account for 50% of your grade. No makeup is offered for either one. They consist of 50 multiple-choice questions, must be taken on Canvas on specific dates (see syllabus) and are timed. Please make sure no mishaps happened during the taking of the exams.
2. It is imperative that you participate (post and read) in the Discussion forums. At least five substantively meaningful entries per week must be posted for the extra credit part of your grade.
3. Lab #1 and #2 are required to be submitted as zipped files via Canvas before due date. None of the other labs, except Lab #1 and Lab #2, need to be submitted as they are not graded. ***However, you are strongly encouraged to complete them, as they are often your "life-line" to the projects***.
4. You are not required to submit the homework assignments, but you do not stand a very good chance in passing this course unless you do them regularly and completely. Each homework contains a link to a site that you are encouraged to visit and explore. You should comment on its layout, ease of use, content, relevance, etc. in Canvas's Discussion forum. Very often these sites are valuable resources and you should use them to supplement your text and lessons.
5. There are three programming projects to be completed ***individually***—they are worth 30 points each and all count for 50% of your grade. Guideline and grading rubric will be provided with each project statement.
   - They must be zipped and submitted electronically via Canvas by midnight of the due date (click on the Project link and attach the entire project zipped file).
   - The projects should be identified with at least your name, class and project number, and it should contain all pertinent files in appropriate folders. Here is a good naming example for project 1: Culevski_CS141A_Quilt_Store.zip.
   - Turning a project one day late will cost you 20% of the project's points; two days late costs 30%. Projects late for more than two days are not accepted. A project is late if it is not submitted by midnight of the due date.

REQUIRED MATERIALS: For this course you will need the following products and competencies:

- A relatively fast PC with vast memory and a large hard drive (I recommend a Pentium 4, 2.2GHz or faster with at least 3GB RAM memory, and at least 200GB hard drive).
- Microsoft Windows 7, 8, or 10 or Vista or XP (Home or Professional), or Microsoft Windows 2000 (Professional or Server) with the latest, Microsoft Windows 2003, or Windows Server 2008.
- A Web browser - Google Chrome, Opera, Mozilla Firefox or Internet Explorer - version 6.0 or higher. ***Please use Firefox or Chrome for exams***.
- An EdCC edmail account and the knowledge of how to send and receive emails with attachments.
- The ability to connect uninterruptedly to the Internet, to navigate the Web (use a browser), and handle multiple open windows.
- The ability to zip, unzip, open, close, and save files (WinZip—http://www.winzip.com/win/en/downwz.html or some other packing/unpacking utility—try UltimiteZip—http://www.ultimatezip.com/).
- Familiarity with the Canvas (see help on using Canvas at: http://www.edcc.edu/elearning/).
- MS Office and Adobe Reader—https://get.adobe.com/reader/.
- NetBeans 8.0.2—https://netbeans.org/index.html.
- You could use a Mac instead of Windows based PC that is Java enabled.

RECOMMENDATIONS:

1. Check for announcements and assignments on daily basis; then do the assignments. Allocate at least two hours per day for work on assignments—at times you might need more. It is not a good idea to do all of your studying on weekends only—it just does not work!

2. Keep a record (on your hard drive or USB Flash Disk) of your labs, projects, notes and homework assignments—you are not required to submit the homework assignments, but their completion is imperative for success in this class.
3. Read the text, the lessons, and any other valuable sources. It is very important that you understand the structure and organization of the course as well as where to obtain all the materials immediately. Please read very carefully the early, and all other, announcements.
4. Do the homework tutorials and exercises—they are instrumental in doing well on the exams.
5. Do the labs—they are your life-line to the projects. I will try to post solutions to them.
6. Memorize important identities, definitions, and results. More importantly, learn Java by writing, writing, and writing as many programs as you can. You learn programming by doing it—and you have a very good text to walk you through the process!
7. Download the examples from the text and create a work folder on your hard drive. Then do all required examples on timely fashion.
8. The exams will be given electronically on Canvas in class on the specified dates (see the Syllabus). There is no make up for the exams. Avoid using IE for browser.
9. Let me repeat myself and be redundant: it is imperative that you participate (post and read) in the Discussion Board Forum. At least 50 ***substantively meaningful*** entries must be posted for the extra credit part of your grade. An integral part of this course is using **extensively** the Discussion forums—it is here that you seek help and help other students in need. Periodically I will post comments and replies in this section as well, when required and needed, but I rely that you will help each other in the various forums.
10. Ask questions and seek help when puzzled and offer timely help to others in need. This help should not include sharing of code, however. You are expected to take the exams on your own without any help—they are open book, open notes, open Internet, and timed. Warning: you will not have enough time to search for answers to exam questions--you need to know the material to complete the exams in the time allocated; so study hard! However, write your own labs and projects.
11. Download and install the newest version of JDK (8u40 at the time of this writing) with NetBeans IDE 8.0.2 Cobundle on your home computer immediately (http://www.oracle.com/technetwork/java/javase/downloads/index.html). Alternately, you may use any other Java IDE you desire—just let me know which one you used. However, you must have j2se 8.0 or higher installed on your machine. Alternatively, you could download NetBeans from the NetBeans site at https://netbeans.org/index.html.
12. Read the daily announcements in Canvas and follow the to-do list. Read the Java IDEs and Web Browsers and Download and Install Java SE Development Kit 8_45 with NetBeans IDE 8..0.2 Cobundle documents in Canvas. Try downloading the newest stable versions of both programs.
13. Add to your Favorites (or bookmarks) the site http://docs.oracle.com/javase/8/docs/api/. You will need to refer to this site constantly—it contains the API for most Java SE classes.

MISCELLANIOUS RULES:

1. Participation via the Discussion forums is strongly encouraged—extra credit is attributed to this participation. It is your responsibility to withdraw before the appropriate deadlines, should you need to withdraw.
2. Pay attention to important dates from the Academic Calendar—http://www.edcc.edu/calendar/ and from the class syllabus.
3. Cheating, impersonation, and plagiarism are academically intolerable and a violation of standards of student conduct. For this class algorithmic help is encouraged but sharing of code is not. The academic honesty of EdCC will be strictly enforced.
4. If you have a medical problems which might interfere with your class, you need to disclose it and the action you need to take if the problem occurs during class, the name and telephone number of your physician and/or names and numbers of people who can be called to take you home or to a place designated for your care.

5. If you require an accommodation for a disability, please contact Services for Students with Disabilities, WDY 114, (425) 640-1320, ssdmail@edcc.edu.
6. Successful completion of student responsibilities in this class requires access to Canvas via an Internet browser. You are expected to login to the Canvas classroom at least 6 times per week. Instructions for access to Canvas may be located online at the following address: http://edcc.edu/online/support/.
7. Learning Support Center at Edmonds Community College is located at: http://edcc.edu/lsc/

STUDENT RESOURCES AT EDCC:

1. Learning Support Center. Mukilteo 113. (425) 640-1750
2. Multicultural Services Center. Mountlake Terrace Hall 122. (425) 640-1538
3. Counseling Center. Mountlake Terrace Hall 123. (425) 640-1358
4. Bookstore. Mountlake Terrace Hall, 1st floor. (425) 640-1672. http://edcc.bncollege.com/webapp/wcs/stores/servlet/BNCBHomePage?storeId=65738&catalogId=10001&langId=-1
5. Campus Safety. Mountlake Terrace Hall 102. (425) 640-1501.
6. Services for Students with Disabilities. Woodway Hall 114. (425) 640-1320.
7. Student Career and Employment Services. North Campus Complex. (425) 640-1445.
8. Women's Program. Triton Union 132. (425) 640-1309.
9. Student Services on-line at http://students.edcc.edu/csel/default.html.
10. Career Action Center at http://www.edcc.edu/careeractioncenter/.
11. You can sign up to receive email or text notifications of college closures or delayed openings due to weather or other emergencies at http://www.schoolreport.org/. You can also call the college's switchboard at 425.640.1459
12. Academic Calendar: http://www.edcc.edu/calendar/
13. Advising: http://www.edcc.edu/getting-started/advising/default.html
14. College Policies and Procedures: http://catalog.edcc.edu
15. Counseling and Resource Center: http://www.edcc.edu/counseling/
16. Distance Learning Office: http://www.edcc.edu/online/
17. Diversity Student Center: http://www.edcc.edu/dsc/
18. Learning Support Center: http://www.edcc.edu/lsc/tutoring-center.html
19. Library, including online resources: http://www.edcc.edu/library/
20. Office of Student Life: http://students.edcc.edu/csel/default.html
21. Student Services: http://students.edcc.edu/support/default.html
22. Canvas: http://www.edcc.edu/elearning/
23. Computer Resources: Computers are available on a wide variety of locations across campus.

STUDENT JAVA RESOURCES:

1. NetBeans download, tutoring, support, plugins, https://netbeans.org/
2. The Java Tutorials at Oracle, http://docs.oracle.com/javase/tutorial/
3. Java 8 API (Class Overview), http://docs.oracle.com/javase/8/docs/api/
4. Big Java text, http://www.horstmann.com/bigjava.html
5. Java SE 8.0 Documentation, http://docs.oracle.com/javase/8/docs/
6. Dr. Dobbs, http://www.drdobbs.com/jvm