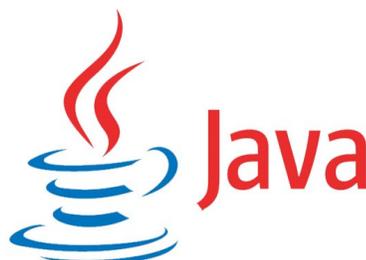


CS 220 Introduction to Programming with Java Fall 2013

Class Number: 10305 (4 credit units)
Room: 1705
MW 11:50am-2:55pm

Instructor: Rick Castrapel
Phone: (760) 355-6505
Office: Room 2773
Email: rick.castrapel@imperial.edu
Web Site: <http://www.imperial.edu/rick.castrapel>
Textbook: Introduction to Java Programming Brief Version
 9th Ed., 978-0-13-292373-6
Office Hours: MW 6:00-7:00pm, TR 4:00-5:00pm
 or by appointment



Description:	This course helps students to develop problem solving skills and solving problems using programming languages. Students are introduced to fundamentals of programming with emphasis on primitive data types, control statements, methods, arrays. By the end of the semester, students will be able to create simple programs. The course is taught through lecture and lab session each day. The lectures cover the programming concepts and the labs are designed to support the lectures and to give students hands-on programming practice.
Student Learning Outcomes:	<ol style="list-style-type: none"> 1. Design, code, and test a complete Java program that correctly employs sequential, conditional and iterative control constructs to satisfy the program's functional specification. 2. Understand Primitive Data Types, Selection Statements, Loops, Methods, and Arrays and their implementations in the Java Programming Language. 3. Write a working program utilizing methods. 4. Write a working program utilizing arrays.
Prerequisites:	MATH 90 or 91 and CIS 202,204 or 208 recommended
Cell Phones:	Keep cell phones turned off during class and labs.
Keeping Up:	Don't let yourself fall behind. If you feel you are slipping, SEE ME . This is urgent . It is my goal and that of the Imperial Valley College Science Division that you succeed.
Lab:	Classes and labs will take place in the Computer Science Lab, room 1705.
Dropping:	You may be dropped from this class if you miss the first day or if you miss three or more class sessions total. The last day to drop this class is Nov 9. After that date, I must give you a letter grade. It is your responsibility to drop, not mine.
DSP&S:	Any student with a documented disability who may need educational accommodations should notify the Disabled Student Programs and Services (DSP&S) office as soon as possible. Room 2117 Health Sciences Building (760) 355-6312.
Grading:	There will be 1 midterm test, worth 100 points. There will be a comprehensive final exam worth 100 points. Programming assignments will be given throughout the semester and are worth 200 points total. Programming assignments will be graded 20% on style and documentation and 80% on correctness.

Grading Policy

Midterm Test	100 points
Programming Assignments	200 points
Final Exam	100 points
Total	400 points

Grading Scale

90-100 %	A
80-89%	B
70-79%	C
60-69 %	D
< 60 %	F

Academic Integrity is assumed and necessary. You will be treated as an adult professional and will be expected to behave accordingly. You must follow the Computer Sciences Code of Conduct. Programming assignments must be done individually. Failure to do so will result in a violation of the Academic Honor Code. The following cases will be considered as violations: identical code, and extremely similar code. Violations will be reported to the Office of Vice President of Student Services. Disruptive students will be required to leave the class for the day. Continued disruptive behavior, cheating, plagiarism or deliberate unsafe computer use may result in severe academic penalty. See the college bulletin for details.

CS 220 Fall 2013 Tentative Schedule

Date	Text	Event	Topic
08/19/13	1.1-1.5	Course Introduction	Overview of Computer Systems, Programming Languages, and Java
08/21/13			
08/26/13	1.6-1.10		Introduce a Simple Program. Create, Edit, Compile, and Run Java Programs.
08/28/13			
09/02/13		Holiday	Labor Day
09/04/13	Ch 2		Elementary Programming Concepts
09/09/13			
09/11/13			
09/16/13			
09/18/13			
09/23/13	Ch 3		Selections
09/25/13			
09/30/13			
10/02/13			
10/07/13			
10/09/13		Midterm Exam	Chapters 1, 2, 3
10/14/13	Ch 4		Loops
10/16/13			
10/21/13			
10/23/13			
10/28/13	Ch 5		Methods
10/30/13			
11/04/13			
11/06/13			
11/11/13		Holiday	Veterans Day
11/13/13	Ch 6,7		Arrays
11/18/13			
11/20/13			
11/25/13			
11/27/13			
12/02/13			
12/04/13		Final Exam	Comprehensive Final

CS 220

STUDENT LEARNING OUTCOMES:

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Describe the software development life cycle. (ILO1, ILO2, ILO4)
2. Understand Primitive Data Types, Selection Statements, Loops, Methods, and Arrays and their implementations in the Java Programming Language. (ILO1, ILO2, ILO4)
3. Explain what an algorithm is and its importance in computer programming. (ILO1, ILO2, ILO4)
4. Write a working program utilizing methods and arrays. (ILO1, ILO2, ILO4)

MEASURABLE COURSE OBJECTIVES AND MINIMUM STANDARDS FOR GRADE OF "C":

Upon satisfactory completion of the course, students will be able to:

1. Understand computer basics, programs, operating systems, compilers, interpreters, linkers, and the program development cycle.
2. Understand how the computer represents numerical and character data types, be able to convert between binary, decimal and hexadecimal, and convert between unicode characters and hexadecimal.
3. Identify and describe the significance of the major parts of a Java program; correctly state the range of values of each Java primitive data type, describe the result of applying each of the various Java arithmetic, logical and relational operators to operands of various types, and correctly predict the value of complex Java arithmetic, logical and relational expressions.
4. Design, code, and test a complete Java program that correctly employs sequential, conditional and iterative control constructs to satisfy the program's functional specification.
5. Design, code, and test a complete Java program that correctly declares, instantiates, and manipulates the elements of one-dimensional arrays, two-dimensional arrays, and Vectors to satisfy the program's functional specification.
6. Write a complete Java program that employs linear search and binary search to search a static array.

Imperial Valley College Computer Sciences Code of Conduct

We believe that everyone has a right to work in an environment where people treat one another honestly and fairly. Because academic dishonesty can threaten this environment we will pursue abuses of the policies outlined below aggressively.

When you submit any piece of work for grading or other evaluation, the reader will assume that you are the sole author of all aspects of it. The expectation is that you are the originator of every idea and author of every sentence in an essay, help file, or other document, that you wrote every line of code, that you designed every data structure and created every piece of data. In practice, you will often have good reason to use other people's work or to collaborate with others in creating a work that you will submit. In these cases, it is your responsibility to make the reader clearly aware of what has come from other sources. If a reasonable reader would assume, on reading your work, that some part was created by you alone when in fact it was created by someone else or by you in partnership with someone else, that reader has been misled. It is your responsibility to prevent such misimpressions, and the department will hold students accountable both for intentionally misleading readers and for failing to prevent reasonable misimpressions.

Code Plagiarism.

Computer science is a discipline where it is difficult to draw a precise line between acceptable and unacceptable collaboration. On the one hand we want to encourage you to try out other peoples' code; code reuse is an area of active research within computer science. On the other hand you will learn to write code only if you do it yourself. You are not learning and have crossed the line of acceptable behavior if you do not understand the solution you have submitted. We have the right to ask students to explain the code they submit. If you have "reused" someone else's code to an extent that you feel a need to change variable names or slightly rearrange the order of statements, then you have also violated the honor code. We also reserve the right to use electronic tools to check code for plagiarism. By submitting code for grading in any computer science course, you grant the instructor a license to send a copy of that code for plagiarism analysis to a research service, such as [MOSS](#). The instructor, or their service, may compare your code against other students' code, or compare their code to yours. Give credit to someone else's ideas with a citation rather than turning in their work as your own.

Text Plagiarism.

When you hand in an essay or other writing assignment, you must give credit to your sources. You must provide a reference for any idea, conclusion, information or data that you got from another source (such as a book, an article on the Net, or a person). If you use someone's words, you must show that you are quoting them (use quotation marks or indent long quotes) and your reference should show your exact source (such as the page number of the article or book). If you quote someone, you must quote them accurately, word for word. To avoid plagiarizing, you might find the following articles useful:

- [Cheating and Plagiarism](#) in Regulations section of IVC General Catalog
- [How Not to Plagiarize](http://www.utoronto.ca/writing/plagsep.html) at <http://www.utoronto.ca/writing/plagsep.html>.
- [Citing Sources and Avoiding Plagiarism](http://www.lib.duke.edu/libguide/cite/works_cited.htm) at http://www.lib.duke.edu/libguide/cite/works_cited.htm.

By submitting a writing assignment for grading in any computer science course, you grant the instructor a license to send a copy of that assignment for plagiarism analysis to a research service, such as [TurnItIn](#). The instructor, or their service, may compare your paper against other students' papers, or compare their papers to yours.

Social Responsibility.

Many people use our machines: students, faculty, staff, and outside visitors. Our machines affect other machines on and off campus and they affect the users of these machines. It is not hard to abuse others by mailing ``spam," ``flaming" to newsgroups, being a ``cracker," displaying digital pornography, bogging down the CPU with processes, or hogging the printer. We expect your use of computer resources will be based on the Golden Rule: do unto others as you would have them do unto you. Poor social responsibility because you are new is one thing, but malicious practices are another matter and will not be tolerated. Do not use BitTorrent or messenger services on IVC Computer Science computers, as these are a common source of computer viruses.

Right to Privacy.

You are encouraged to store *electronic property* on computers provided for your use by Computer Sciences, and you have a privacy right to this information. Others also have a right of privacy to the property they store on our computers. You should not search other's file systems, read their mail, scan or remove their files, try to crack their password, login as someone else, intercept other's network traffic, install viruses, or otherwise violate the right to privacy of others. We will not intentionally abuse your right to privacy. However, to administer our machines we may need to do things you should not, for example, we may need to try to crack your password to verify that it is secure, or kill your processes, or remove your files, or read your email, or otherwise invade your privacy when we suspect you are an abuser of our systems.

Discrimination:

It is the policy of the university that all students, faculty, staff, and guests enjoy an environment free from all forms of discrimination, including ethnic, racial, religious, and sexual harassment.

Disclaimers.

The Imperial Valley College Catalog, and the Student Handbook have additional guidelines on campus standards, behavior, discipline, complaint resolution, etc. The Computer Science Honor Code does not replace or supersede these policies. Faculty teaching computer science courses may establish other *honor* criteria for their classes.

As our machines are part of a larger international network, we assume certain responsibilities as a member of a growing electronic community. Exercising this responsibility may require us to search for suspected abusers of our or others computers. If you suspect that someone has violated your rights as a user of our machines, inform the systems administrator; do not attempt to track them down yourself.

Ideas for this code of honor have been collected from other universities, most notably, Stanford University and the University of Florida.