
ICS 111 Introduction to Computer Science I - Course Syllabus
Tuesday/Thursday CRN 33489

Business Legal Technology Education Department
Kapi'olani Community College
Alfred Seita, Spring 2012
January 3, 2012

Instructor: Alfred J. Seita
Email: alfreds@hawaii.edu
ICS 111 Website: <http://starfire.kcc.hawaii.edu/aseita/111>
Laulima: <https://laulima.hawaii.edu>

Classroom: Mamane 102
Meeting Time: Tuesday/Thursday 10:45-12:00 pm CRN 33489

Office: Kopiko 112
Office Hours: Monday/Wednesday 3:05-4:05 pm
Tuesday/Thursday 2:05-3:05 pm

Office Telephone: 734-9458

Alfred Seita's Spring 2012 Work Schedule:

Monday	Tuesday	Wednesday	Thursday	Friday
	BUS 250 9:15—10:30 am Kopiko 126		BUS 250 9:15—10:30 am Kopiko 126	IT/ICS Meetings Committee Meetings
	ICS 111 (33489) 10:45—12:00 pm Mamane 102		ICS 111 (33489) 10:45—12:00 pm Mamane 102	Professional Development
BUS 250 1:45—3:00 pm Kopiko 126	<i>Office Hour</i> 2:05—3:05 pm Kopiko 112	BUS 250 1:45—3:00 pm Kopiko 126	<i>Office Hour</i> 2:05—3:05 pm Kopiko 112	
<i>Office Hour</i> 3:05—4:05 pm Kopiko 112	ICS 101 3:15—4:30 pm Mamane 102	<i>Office Hour</i> 3:05—4:05 pm Kopiko 112	ICS 101 3:15—4:30 pm Mamane 102	

Required Texts: Brief Version *Introduction to Java Programming, Eighth edition*; Y. Daniel Liang; Pearson/Prentice Hall; 2011. ISBN 0-13-213079-3

Do NOT purchase the international edition, because it is NOT the same as the textbook listed above!

Programming Language:

The Java language will be used in ICS 111.

Additional Materials:

- One USB Flash Drive with the capacity of at least 1 Gigabyte (GB) – You can buy this at Best Buy, Office Depot, Office Max, and UH Bookstores.
- Folder paper or letter size laser printer quality paper

Recommended Preparations: ICS 100, ICS 101, or equivalent.

Course Description:

ICS 111 is intended for Computer Science majors and all others interested in the first course in programming. An overview of the fundamentals of computer science emphasizing problem solving, algorithm development, implementation, and debugging/testing using an object-oriented programming language are covered.

Course Competencies: Upon successful completion of ICS 111, the student should be able to:

1. Use an appropriate programming environment to design, code, compile, run and debug computer programs.
2. Solve basic problems by: analyzing problems, modeling a problem as a system of objects, creating algorithms, and implementing models and algorithms in an object-oriented computer language (classes, objects, methods with parameters, abstract classes, interfaces, inheritance and polymorphism).
3. Illustrate basic programming concepts such as program flow and syntax of a high-level general purpose language.
4. Identify relationships between computer systems, programming and programming languages.
5. Work with primitive data types, strings and arrays.

Course Content:

1. Introductory concepts - problem solving, computer hardware, operating system, compiler, editor, and the programming environment.
2. Constants, variables, operators, expressions, simple data types and assignment.
3. Interactive input and output.
4. Two-way and n-way selection, programs that make decisions.
5. Repetition - loops that are controlled by a counter, pre-test and post-test controlled loops.
6. Arrays and strings
7. Defining methods
8. Objects and classes
9. Encapsulation
10. Inheritance and Polymorphism

ICS 111 Course Policy

Academic Honesty Policy:

All course work must represent the knowledge and understanding of each individual student. Activities that result in submission of completed work not representing each student's true understanding of course material is prohibited. You are not permitted to copy assignments from any source. You may discuss the nature of a problem with others, but must give your own original answers for all assigned work. Any student, including collaborators, who cheats or plagiarizes on any quiz, exam, or assignment will receive a "zero score" and will be asked to withdraw from class. If you turn in someone else's work or reformat another person's work as your own, it is cheating. You may not share disks, files, or printouts. Be honest with yourself and with others. If you have concerns, please discuss them with your instructor. For more information, please refer to "Student Conduct Code," Kapi`olani Community College General Catalog.

Attendance Policy:

Regular class attendance is required and is crucial to understand, learn, and successfully pass this course. Programming and design activities are cumulative in knowledge. This means that if you do not come to class, you will MOST likely not understand the materials presented on the next class period. If you are late or miss a class, you are still responsible for obtaining notes on the materials and assignments covered in class. You should obtain notes and explanations from your classmates and any handouts, assignments, and lecture material at <http://starfire.kcc.hawaii.edu/aseita/111>.

Your instructor is not obligated to give you a private lecture for materials covered during the period in which you were absent for whatever reason.

Communication Policy:

1. The instructor is available during office hours and special study sessions. Please contact me in person or via telephone if I am present in the office.
2. The instructor may also be contacted via email. The general turnaround time for email received from Monday through Thursday (excluding Holidays) will be the next day. Emails received from Friday to Sunday will be processed on the following Monday.

All email correspondences must use a bonafide University of Hawaii Email address. All other email addresses will not be acknowledged. In addition, All email correspondences must have an appropriate subject beginning with "ICS 111." Failure to have an appropriate subject may result in the deletion of the email or a delay in the processing the email.

Students who miss class should check with their fellow students and at the ICS 111 class Web site: <http://starfire.kcc.hawaii.edu/aseita/111> to determine what was covered for the missed sessions. Emails involving what was covered will be ignored.

Homework Policy:

Homework assignments are due at the beginning of class, as posted at the ICS 111 class Web site. Late homework will **NOT** be accepted (except under extenuating circumstances), as the pace of this class is simply too fast to fall behind. I strongly encourage all students to stay ahead of the homework schedule and ask questions early. Please do not procrastinate in this class.

General Policy:

1. More than likely, there will be in-class assignments each time class is in session except when there is a review session or an exam. There are ***no make ups*** for any of these in-class assignments for ***whatever reasons!*** In-class assignments may involve group participation.
2. The University expects students to maintain standards of personal integrity that are in harmony with the educational goals of the institution; to respect the rights, privileges, and property of others; and to observe national, state, and local laws and University regulations.

Any student whose speech or actions intentionally are disrespectful, offensive, and/or threatening; interferes with the learning activities of other students; impedes the delivery of College services; or has a negative impact in any learning environment may be subject to disciplinary action by the College. For more information, please refer to "Student Conduct Code," Kapi`olani Community College General Catalog.

3. Unless specified otherwise, there is no game playing while a lecture is in progress. **There will be no printouts in the instruction lab before, during, or after a lecture.** Please be considerate of others by returning computer equipment to its original state (e.g., keyboard on the table and not on the monitor).
4. There is **NO** eating in class.
5. For the consideration of classmates, beepers must be turned to vibrate during class sessions and cell phones must be turned off. Check your messages between classes or during the break.
6. All assignments are assumed to be done in a professional manner using standard 8.5" by 11" folder paper. Used and/or scratch paper are inappropriate for any assignment submitted in this course. Deductions will occur for unprofessional assignments.
7. **Disability Services** provides support services to students with documented disabilities. Extended time in a distraction-free environment is an appropriate accommodation based on a student's disability. If you are a student with a documented disability and have not voluntarily disclosed the nature of your disability and the support you need, you are invited to contact the Disability Support Services Office, 'Iliahi 113, email kapdss@hawaii.edu, or phone 734-9552 for assistance.
8. As a courtesy to your classmates as well as to your instructor, uninvited guests and children are not allowed in the classroom. Please make special arrangements for childcare. For childcare information, contact **Single Parents and Displaced Homemakers Program** which assists eligible single parents and displaced homemakers to gain marketable skills. Services include academic, career and personal counseling; referral networks; career/life planning seminars; financial aid; childcare information; and workshops/club activities. You are invited to contact the program in 'Iliahi 201, email spdh@hawaii.edu, phone 734-9504.
9. If, for any reason, you are unable to fulfill the requirements for this course, talk to your instructor or your counselor. Do not assume that if you simply stop attending classes your instructor will drop you from the course. School policy prevents an instructor from dropping a student without his/her permission. If you do not officially withdraw from the course, your instructor is required to give you an F for the course. This will remain on your college transcript permanently. If you cannot complete the course, please obtain the necessary ADD/DROP form from the Admissions office and have your instructor sign it.

Audio and Video Recording:

Prior permission of the instructor is required for audio and/or visual recordings of lectures or class presentations. Student initiated recording(s) and use of any electronic means of capturing or transmitting lectures or class presentations are prohibited and may be subject to disciplinary action by the College. For more information, please refer to "Student Conduct Code," Kapi'olani Community College General Catalog.

Withdrawal:

The last day to withdraw from this class is noted on the academic calendar and deadlines at the Kapi`olani CC website, www.kcc.hawaii.edu. Please check this site for the latest updates. It is your responsibility to withdraw via the web or obtain the withdrawal form from the Kekaulike Information and Service Center (KISC), formerly Admission, Records, and Financial Aid offices, or from your counselor. It is to your advantage to consult with your counselor for available options. Note: If you are enrolled in only one course at the College, withdrawing from that course also withdraws you from the College.

Course Format:

Lectures and discussions, hands-on demonstrations, in-class activities, group activities, and assignments will be used to present the course material. Questions and problems relating to each topic will be discussed in class as time permits.

Student Evaluation: Individual performance will be measured on the following criteria.

<u>Measurement</u>	<u>Points</u>	<u>Percentage</u>
10 Homework Assignments	10 x 7 = 70	35.0%
In-Class Assignments	10	5.0%
First Exam	20	10.0%
Second Exam	30	15.0%
Final Exam	<u>70</u>	<u>35.0%</u>
Total Points	200	100%

A	90%-100%	180-200 points
B	80%-89%	160-179 points
C	70%-79%	140-159 points
D	60%-69%	120-139 points
F	BELOW 60%	0-119 points

Final Course Grade:

Final course grades are usually posted on the web within a week after grades are due. Grade reports are not mailed to students. Check MyUH at <http://myuh.hawaii.edu> to view grades.

Computer Time:

This course requires the student to spend some time away from the computer to design a simple solution to the assigned programming problem on paper. Once that has been accomplished, the student must spend time translating the paper design into the actual solution using the Java language on the computer. Time will be required to enter the programming language statements and to debug the program statements until they produce the desired results. Programming does take time and one can neither "book learn" programming nor learn it in one long session. One must be patient and practice programming on many assignments with each assignment over a span of a number of days (one week). In general, expect to spend 10-15 or more hours a week on programming activities.

ICS 111 Web Site:

The URL to the ICS 111 Web Site is <http://starfire.kcc.hawaii.edu/aseita/111>. This Website has the most updated weekly class schedule which includes the assignments and their due dates.

Special Computer Login Accounts: Accounts will be established to support your activities for this class.

1. **Starfire Class Web Account:**

This account provided by the instructor will allow students to access publisher provided and instructor developed PowerPoint slides at <http://starfire.kcc.hawaii.edu>.

2. **ICS 111 FTP Class Delivery Account:**

This account provided by the instructor will be used by each student to deliver his/her assignments to the Starfire FTP server at Internet site starfire.kcc.hawaii.edu.

The Starfire FTP server requires a client FTP program that can supports SSL. The Business Education Labs (Mamane 101-104) provides Filezilla as the FTP client. Filezilla is also available at the ICS 111 Website: <http://starfire.kcc.hawaii.edu/aseita/111>.

3. **Special Student Code (SSC) and Initials:**

A special student code (SSC) and initials will be generated and assigned to each student. The special student code and initials are required on all delivered assignments to uniquely identify Internet delivered files.

The special student code (SSC), initials, and all account user names and passwords will be sent via email from the instructor to each student no later than the second week of instruction.

Tentative ICS 111 Class Schedule for Spring 2012

Presented here is a tentative schedule that is subject to change upon the discretion of the instructor.

The most updated schedule with complete assignment due dates is available at the ICS 111 Website:

<http://starfire.kcc.hawaii.edu/aseita/111/LectureNotes.html>. This site is updated almost every week.

Please read the chapter shown in the subject area before coming to class.

Week	Date	Subject
1	1/10-1/12	Student and Instructor Introductions & 111 Syllabus Chapter 1 – Introduction to Computers, Programs, and Java Periodically check the assignment due dates at http://starfire.kcc.hawaii.edu/aseita/111 A one-page PDF document will be sent as an attachment via email to each student starting 1/16/2012. This document will contain your Filezilla class delivery account, Starfire Class Web Account, student special code (SSC), and initials.
2	1/17-1/19	Chapter 2 – Elementary Programming
3	1/24-1/26	Chapter 3 – Selections
4	1/31-2/2	Chapter 4 – Loops
5	2/7-2/9	Chapter 4 – Loops (Continued) Review
6	2/14 2/16	2/14 <i>First Exam (Chapters 1 - 4)</i> Chapter 5 – Methods
7	2/21-2/23	Chapter 5 – Methods (Continued)
8	2/28-3/1	Chapter 6 – Single-Dimensional Arrays

9	3/6-3/8	Chapter 7 – Multidimensional Arrays Chapter 8 – Objects and Classes
10	3/13-3/15	Chapter 8 – Objects and Classes (Continued) Review
11	3/20 3/22	3/20 Second Exam (Chapters 5-8) Chapter 9 – Strings and Text I/O
	3/26-3/30	Spring Break – No Classes
12	4/2 4/3-4/5	Tuesday, April 2nd is the last day to withdraw from full-semester classes, to change to credit/no credit grade option, and to request audit grade option. Complete withdrawals and grade option changes must be done in person. Not all classes are eligible for the credit/no credit option. Chapter 9 – Strings and Text I/O (Continued) Chapter 10 – Thinking in Objects
13	4/10-4/12	Chapter 11 – Inheritance and Polymorphism
14	4/17-4/19	Chapter 11 – Inheritance and Polymorphism (Continued) Chapter 14 – Abstract Classes and Interfaces
15	4/24-4/26	Chapter 13 – Exception Handling
16	5/1	Special Topic Review for the Final
17	5/8	Final Exam (Chapters 9-11 and 13) 5/8 Tuesday, 10:00-12:00 pm (noon)