Course title: Computer Programming for Business II   **Fall 2009**
Course number: M&IS 34033 section 001
CRN: 18363

Course description: This course presently uses the Java programming language to emphasize problem solving, developing systems, structured programming, object-oriented programming and programming style conventions.

Location: BOW 311   **Meeting day:** W   **Meeting time:** 6:15 pm - 8:55 PM

Instructor Name: Professor Janet Formichelli, MS
E-mail: jformich@kent.edu
Office location: A410 BSA
Office hours: W 5:00-6:00, TR 10:30-12:30
Phone: 330-672-1159 (e-mail preferred)

Prerequisites: M&IS 24060 Systems Analysis I
M&IS 24070 Principles of System Development
Students attending the course who do not have the proper prerequisites risk being deregistered from the class.

Enrollment: Students have responsibility to ensure they are properly enrolled in classes. You are advised to review your official class schedule (using Student Tools/Flashfast) during the first two weeks of the semester to ensure you are properly enrolled in this class and section. Should you find an error in your class schedule, you have until Sunday, September 13, 2009 to correct the error with your advising office. If registration errors are not corrected by this date and you continue to attend and participate in classes for which you are not officially enrolled, you are advised now that you **will not** receive a grade at the conclusion of the semester for any class in which you are not properly registered.

Course Goals: To solve problems and implement these solutions using the Java programming language.

Summary of key components of the course:
Introduction to Applications
- Brief history of Java
- Java class libraries
- Memory concepts
- Inputting and outputting data, scanner, printf

- Operators--arithmetic, relational, assignment, increment, decrement and logical
- Primitive data types

Exception Handling
- try/catch blocks
- common exceptions

Introduction to Applets
- Compiling and executing Applets
- Viewing Applets with appletviewer
- Incorporating Applets in an html file

Graphics
- Color control
- Font control
- Drawing lines, rectangles, ovals and arcs
- Drawing polygons and polylines

Control structures
- if
- if/else
- while
- do/while
- for
- switch

Methods
- Method definitions
- Java API packages
- Methods of class Math
- Methods of class JApplet
- Argument promotion
- Duration of identifiers
- Scope rules
- Method overloading
- Enumerations

Arrays
- Arrays--allocating, initializing and using

- Enhanced for
- References and reference parameters
- Passing arrays to methods
- Sorting and searching arrays

Programming with Objects and Classes
- Declaring and creating objects
- Differences between primitive types and objects
- Garbage collection
- Accessing an object's data and methods
- Constructors
- Passing objects to methods
- Visibility modifiers and accessor methods
- Class variables, constants and methods
- Instance variables and class variables
- Scope of class variables
- The keyword this

Inheritance
- Superclasses and subclasses
- The keyword super
- Calling superclass constructors and methods
- Overriding methods

Textbook: Deitel and Deitel, <u>Java: How to Program, Seventh Edition</u>, Pearson Prentice Hall, 2007. ISBN: 0-13-222220-5

This book is also available on Safari, to which, as a KSU student, you have access. You might want to have a reference copy for yourself, though, as it may be difficult to read online. To see what it looks like from your home computer, you first have to activate the KSU VPN. If you do not already have this software on your computer, go to http://www.kent.edu/is/Network/KSU-VPN-Instructions.cfm for instructions on downloading and using the VPN. When you have it downloaded you also have to activate it to access KSU content. So with the VPN activated, go to Flashline, http://flashline.kent.edu and choose the Courses tab. Scroll down and on the left you will see Safari. Put in the name of the textbook in the search text box and you can read the entire text online. Again, see how this goes for you, or if you might want a physical copy of the text.

Vista 8.0

The Vista (formerly WebCT) site, http://vista8.kent.edu, will basically manage the course. The syllabus, assignments, Power Point slides, and other course information will be found there. If you need help with Vista 8, there should be some training material on the site after you log on.

Software Go to Vista8 and read "Java Compiling and Editing Information" on the homepage there for complete information about installing the Java 2 SDK. It is available free from Sun. Several IDE's are also available for free. Again, go to "Java Compiling and Editing Information" on Vista8 for more information.

Course Requirements

6 Java programming assignments:
(hw 1: 25 points, hw 2-6: 35 points each) 200 points

3 course exams:
(50 points each) 150 points

Grading Scale

This scale is followed closely.
All grades are rounded up at .5. There is no other rounding up if you are close.
There is no extra credit.

A (4.0) 93-100
A- (3.7) 90-92
B+ (3.3) 87-89
B (3.0) 83-86
B- (2.7) 80-82
C+ (2.3) 77-79
C (2.0) 73-76
C- (1.7) 70-72
D+ (1.3) 67-69
D (1.0) 60-66
F (0.0) 0-59

Labs

Labs are generally scheduled a week before an assignment is due. See the schedule below. Labs will be used to work on the assignment and receive help if necessary. jGRASP and NetBeans are available on the lab computers.

E-mail

When there are schedule changes or other announcements, the instructor will e-mail you using your KSU e-mail address. Check this frequently. If you commonly use another address, forward your Kent e-mail to that address. You can do this easily on the Kent Help Desk site at: http://helpdesk.kent.edu/faq/Email/fmail/
To e-mail the instructor use: jformich@kent.edu. Do not e-mail the instructor on Vista8.

Attendance

Missing class is not an excuse for failure to understand material or complete assignments. Material covered in class will not be covered again outside of class. It is up to you to read the material and get notes from another student if you miss class. Do not expect any help during office hours if you do not attend class regularly.

Homework Assignments

Programming assignments are to be submitted to Vista8. Absence from class is not an excuse for not having submitted the assignment. You may re-submit assignments up to the time the assignment is due with no penalty. After that, late assignments will be penalized 10% per day (not per class session). Assignments can not be submitted after one week beyond the due date.

Make-up Exams

Make-up exams are given only under extraordinary circumstances. Inform the instructor as soon as possible (ideally before the exam). Some form of written excuse for absence from an exam is required.

Academic Honesty

College of Business Policy: Academic Honesty: Cheating means to misrepresent the source, nature, or other conditions of your academic work (e.g., tests, papers, projects, assignments) so as to get undeserved credit. The use of the intellectual property of others without giving them appropriate credit is a serious academic offense. It is the University's policy that cheating or plagiarism result in receiving a failing grade (0 points) for the work or course. Repeat offenses may result in dismissal from the University.

Course Policy: Academic honesty is expected and required. HELPING fellow students is acceptable, and is actually a very good way to learn the material (particularly with

debugging programs). COPYING is NOT acceptable, and will result in loss of credit for the assignment, and possibly failure of the course for all students involved. Follow these guidelines: All work on the design and basic coding phase of a program should be your own. That is, sitting in a group writing a program together is considered to be copying. If you receive help with debugging part of an assignment, then you must acknowledge that help in the documentation of that section (your grade will not be affected). If you give help to another student, then it is your responsibility to make sure that they fully understand the concepts. You may help them to debug the program, but you may not give them code. If copying programs is suspected, both (or all) students involved will receive zeros for that assignment at the least, and possibly a failure for the course. DO NOT GIVE OTHERS YOUR CODE. If they ask you for it, ask to see theirs instead and help them debug.

Students with Disabilities
University policy 3342-3-18 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through the Student Accessibility Services (contact 330-672-3391 or visit www.kent.edu/sas for more information on registration procedures).

			Tentative Schedule Fall 2009		
Week 1	Sept. 2	Chp. 1, 2			
Week 2	Sept. 9	Chp. 2, 13		Lab	
Week 3	Sept. 16	Chp. 20			
	Sept. 20 11:59 PM			Assignment 1	
Week 4	Sept. 23	Chp. 12			
Week 5	Sept. 30		Exam 1: Chp.1, 2, 12, 13, 20	Lab	
Week 6	Oct. 7	Chp. 3, 4			
	Oct. 11 11:59 PM			Assignment 2	
Week 7	Oct. 14	Chp. 4, 5			
Week 8	Oct. 21	Chp. 6		Lab	
Week 9	Oct. 28	Chp. 6			
	Nov. 1 11:59 PM			Assignment 3	
Week 10	Nov. 4		Exam 2: Chp. 3, 4, 5, 6	Lab	
	Sunday, Nov. 8			Last Day to Withdraw	
Week 11	Nov. 11	No Class			
Week 12	Nov. 18	Chp. 7			
	Nov. 22 11:59 PM			Assignment 4	
Week 13	Nov. 25	No Class			
	Nov. 29 11:59 PM			Assignment 5	
Week 14	Dec. 2	Chp. 7, 8		Lab	
Week 15	Dec. 9	Chp. 8, 9	Evaluation	Lab	
	Dec. 13 11:59 PM			Assignment 6	
Week 16	Dec. 16 5:45-8:00		Exam 3: Chp. 7, 8, 9		