

Course Information

Course title: Computer Programming for Business II

Spring 2007

Course number: M&IS 34033 section 001

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: BSA 206

Meeting day: TR **Meeting time:** 3:45-5:00 PM

Instructor Information

Name: Janet Formichelli, MS

Email: jformich@kent.edu

Office location: A410 BSA

Office hours: TR 2:00-3:30, W 2:15-3:15, 4:15-5:15

Phone: 330-672-1159

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.

Grading Scale

For general information on the plus/minus grading system, go to:

<http://business.kent.edu/news/plusminus.asp> For more information, there is an online brochure at: http://www.uss.kent.edu/PDF/pm_grading_brochure.pdf

This scale is followed closely. There is no 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

Enrollment: Students have responsibility to ensure they are properly enrolled in classes. You are advised to review your official class schedule (using Web for Students) 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 Friday, January 26, 2007 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, Java: How to Program, Sixth Edition, Pearson Prentice Hall, 2005. ISBN: 0-13-148398-6

WebCT

The WebCT Vista site, <http://vista.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, there is a link to Learning with Vista—Student Training Modules on the MyWebCT page.

Software

Go to WebCT Vista and read “Compiling and Running Java” 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 “Compiling Java” on WebCT for more information.

Course Requirements

6 Java programming assignments: (25 points hw1, 35 points hw2-6) 200 points

3 course exams: (50 points each) 150 points

final exam: 50 points

Labs

Labs are scheduled generally a week before an assignment is due. Labs will be 4:15-5:00 PM on the dates indicated on the schedule at the end of this syllabus.

They will be used to work on the assignment and receive help if necessary. You may use either jGRASP or the command prompt 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 or jformich@ameritech.net. Do not e-mail the instructor at WebCT.

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 special help or privileges if you do not attend class regularly.

Homework Assignments

Programming assignments are to be submitted to WebCT. 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. In addition, it is considered to cheating when one cooperates with someone else in any such misrepresentation. 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 for the work or course. Repeat offenses 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 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 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 for Spring 2007

Week 1	Tuesday	Jan. 16	Chp. 1	
	Thursday	Jan. 18	Chp. 2	
Week 2	Tuesday	Jan. 23	Chp. 2, 13	
	Thursday	Jan. 25	Chp. 13	Lab
Week 3	Tuesday	Jan. 30	Chp. 20	
	Thursday	Feb. 1	Chp. 20	Assignment 1
Week 4	Tuesday	Feb. 6	Chp. 12	
	Thursday	Feb. 8	Chp. 12	
Week 5	Tuesday	Feb. 13	Exam 1: Chp. 1, 2, 12, 13, 20	
	Thursday	Feb. 15	Go over Exam 1, Chp. 3	Lab
Week 6	Tuesday	Feb. 20	Chp. 3	
	Thursday	Feb. 22	Chp. 3	Assignment 2
Week 7	Tuesday	Feb. 27	Chp. 4	
	Thursday	Mar. 1	Chp. 4	

Week 8	Tuesday	Mar. 6	Chp. 5	
	Thursday	Mar. 8	no class	Lab
Week 9	Tuesday	Mar. 13	Chp. 5	
	Thursday	Mar. 15	Chp. 6	
Week 10	Tuesday	Mar. 20	Chp. 6	
	Thursday	Mar. 22	Chp. 6	Assignment 3
	Sunday	Mar. 25	Last Day to Withdraw	
	Tuesday	Mar. 27	Spring Break	
Week 11	Thursday	Mar. 29	Spring Break	
	Tuesday	Apr. 3	Chp. 7	Lab
	Thursday	Apr. 5	Chp. 7	Assignment 4
Week 12	Tuesday	Apr. 10		
	Thursday	Apr. 12	Exam 2: Chp. 3, 4, 5, 6 Go over Exam 2, Chp. 7	
Week 13	Tuesday	Apr. 17	Chp. 8	Lab
	Thursday	Apr. 19	Chp. 8	
	Saturday	Apr. 21, midnight	(Apr. 22, 12:00 AM)	Assignment 5
Week 14	Tuesday	Apr. 24	Chp. 9	
	Thursday	Apr. 26	Chp. 9	
Week 15	Tuesday	May 1		
			Exam 3: Chp. 7, 8, 9 Course Evaluation	
	Thursday	May 3	Go over Exam 3	Lab
Week 16	Saturday	May. 5, midnight	(May 6 12:00 AM)	Assignment 6
	Friday	May. 11 7:45-10:00 AM	Final Exam: comprehensive	