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CS 1331 A - Introduction to Object-Oriented Programming

Spring 2014, Section A
MWF 1-2, Klaus 1443

Introduction to the techniques and methods of object-oriented programming such as encapsulation, inheritance, and polymorphism. Emphasis on software development and individual programming skills.

Syllabus

Date	Session	Topic	Material	HW
Week 1				
Jan 6	Lecture	Introduction	1	
Jan 8	Lecture	Installing java, IDEs		
Jan 10	Lecture	Variables, assignment, strings	2.1-2.3	
Week 2				
Jan 13	Lecture	Expressions, conversions, scanner	2.4-2.6	
Jan 15	Lecture	Graphics, Applet intro.	2.7-2.9	
Jan 17	Lecture	Objects, classes, String	3.1-3.2	HW 1
Week 3				
Jan 20		MLK Holiday - No class		
Jan 22	Lecture	random, more on objects	3.3-3.4	
Jan 24	Lecture	Math, output, enum types, wrappers	3.5-3.8	HW 2
Week 4				
Jan 27	Lecture	Components, containers, images	3.9-3.11	
Jan 29	Lecture	Classes	4.1-4.2	
Jan 31		Exam 1		
Week 5				
Feb 3	Lecture	Methods, parameters, constructors	4.3-4.5	
Feb 5	Lecture	GUIs, buttons, text fields, events	4.6-4.9	
Feb 7	Lecture	Conditionals, if, switch	5.1-5.3, 6.1-6.2	HW 3
Week 6				
Feb 10	Lecture	Iteration	5.4-5.5, 6.3-6.4	

Feb 12	Lecture	Drawing with loops, dialog boxes, buttons	5.7-5.8, 6.5-6.6	
Feb 14	Lecture	Class design, static vs. instance	7.1-7.4	HW 4
Week 7				
Feb 17	Lecture	Class design, static vs. instance	7.1-7.4	
Feb 19	Lecture	Interfaces, comparable	7.5-7.8	
Feb 21	Lecture	Testing, debugging, Eclipse	7.9	HW 5
Week 8				
Feb 24	Lecture	GUIs, layout management	7.10-7.13	
Feb 26	Lecture	Passing Data		
Feb 28		Exam 2		
Week 9				
Mar 3	Lecture	Arrays	8.1-8.4	
Mar 5	Lecture	Multi-dimen arrays, ArrayList	8.5-8.6	
Mar 7	Lecture	Polygons, mouse and key events	8.7-8.9	HW 6
Week 10				
Mar 10	Lecture	Inheritance, Overriding	9.1-9.2	
Mar 12	Lecture	Inheritance, Overriding	9.1-9.2	
Mar 14	Lecture	Components of a good class, Object	9.3	HW 7
Week 11				
Mar 17		Spring Break - No class		
Mar 19		Spring Break - No class		
Mar 21		Spring Break - No class		
Week 12				
Mar 24	Lecture	Hierarchies, abstract classes	9.3-9.5	
Mar 26	Lecture	Components, adapters, timers and animation	9.6-9.8	
Mar 28	Lecture	Polymorphism, dynamic binding	10.1-10.2	HW 8
Week 13				
Mar 31	Lecture	Sorting with polymorphism	10.3-10.4	
Apr 2	Lecture	Asymptotics, Searching	10.5	
Apr 4		Exam 3		
Week 14				
Apr 7	Lecture	Designing with polymorphism	10.6	
Apr 9	Lecture	Exceptions, File I/O	11.1-11.6	

Apr 11	Lecture	Recursion	12.1-12.4	HW 9
Week 15				
Apr 14	Lecture	ADTs, Sets		
Apr 16	Lecture	Linked lists 1		
Apr 18	Lecture	Linked lists 2		HW 10
Week 16				
Apr 21	Lecture	Hashing		
Apr 23	Lecture	Choosers, sliders, combo boxes, GUI misc.	10.7-10.10, 11.7-11.10	
Apr 25	Lecture	Review		
Week 17				
May 2, 2:50-5:40pm		Final Exam		

Grading

Grade Scale:

90 - 100 = A
80 - 89 = B
70 - 79 = C
60 - 69 = D
0 - 59 = F

IMPORTANT NOTES ON GRADING:
In addition to the total overall class percentage for determining your grade, you must have a passing average (>60 average) on the 3 exams and final exam (combined) to pass the course as well. We implement this policy as a check-and-balance with respect to the HWs and our allowance of collaboration on them. Note that this does not mean that you have the option of only using the four exams to determine your grade. All the categories above will be used in the grade calculation, **but in addition**, you must have a passing grade on just the four exams in order to pass the course.

You have two weeks from the time TA's review an exam or post your homework grade to file a challenge to the grading. After that time, the grade will stand. It doesn't have to get resolved in 2 weeks, but you must notify someone with specific issues about a question on the exam or a homework for the grade to be eligible to be changed.

All grades will be determined by work done throughout the semester. Students will never be allowed to do "extra work or projects" after the term to boost their grade.

For (non-CS/CM) students who are taking the course P/F, you must earn 60% to earn a P (and on the exams too).

Course Grade Percentages:

Program Homeworks (10)	P1-P10@2%	20%
Tests	3@17%	51%
Final Exam		26%
Participation & Attendance		03%