

COURSE SYLLABUS

YEAR COURSE OFFERED: 2018

SEMESTER COURSE OFFERED: Fall

DEPARTMENT: MIS

COURSE NUMBER: 7397

NAME OF COURSE: Object Oriented Programming

NAME OF INSTRUCTOR: Collier, Cooper, Knighton

The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Learning Objectives

This is a beginning programming course that uses Java to help you understand programming concepts, such as an object orientation, routine (method) calls, conditional logic, looping logic, file handling, and effective programming. Therefore, we will not cover many aspects of the Java language that would be important if we were learning Java itself. For example, we will not cover how to create Java applets (that can be used on the Web), how to create and use windows-based forms, graphics, etc.

Major Assignments/Exams

- o **Exams.** There are two exams that make up 50% of your final grade. The exams are weighted equally: Exam 1 = 25% & Exam 2 = 25%.
- o **Quizzes.** There are two quizzes that make up 35% of your final grade. Your quiz with the highest score has a weight of 20% and your quiz with the lowest score has a weight of 15%.
- o **Daily Grades.** Daily grades make up 15% of your final grade, and are determined in the following manner. You should buy about twenty-five **4x6 inch** index cards. On each card, enter your NAME and LAST 3 DIGITS of your student ID. At least 20 times (spread throughout the semester), your instructor will pose a question based on the lecture from THE PRIOR CLASS PERIOD. This question will be asked sometime during a class period. You will have approximately 10 minutes to write your answer down on a card and turn it in. You will not be able to use any materials (text, notes, neighbors, etc.) to help you answer the question. You will get zero, 1, 2, or 3 points based on the following.
 - Zero – The answer does not represent a good faith effort.
 - 1 – The answer represents a good faith effort, but is significantly wrong.
 - 2 – The answer is mostly right in terms, for example, of programming style, being able to pass a compile, having the appropriate functionality, etc.
 - 3 – The answer is correct e.g., in terms of style, compilation, functionality

At the end of the semester, your Total Daily Grade is determined as follows.

- Your Daily Grade points are added up and this sum is divided by 45.
- If this proportion is greater than 1, then it is set equal to 1.
- This proportion is then multiplied by 15, resulting in your Total Daily Grade.

Thus, if you have 15 or more Daily Grades, all of which receive full credit (i.e., a 3), you will earn the full 15 points; if you have 20 Daily Grades, all of which receive a 2, you will earn 13.35 points; if you have 20 Daily Grades, all of which receive a 1, you will earn 6.6 points.

Required Reading

- Farrell, Joyce Java Programming, 9th Edition, Course Technology, Inc., 2016, ISBN-13: 978-1337397070.

COURSE SYLLABUS

Some explanations and clarifications associated with portions of the text can be found in the *Book Notes* document within the *Chapter Replacements, Additions, & Book Notes* section of Blackboard. These explanations and clarifications are **VERY IMPORTANT**. For example, these notes indicate sections and concepts for which you will **NOT** be held accountable (i.e., they won't be on any quiz or exam). You should print off the *Book Notes* and make changes to your text as soon as you can.

- In the last weeks of the course we will be covering Sequential File Handling and Modularization concepts that are not included in the text and/or go beyond that included in the text. Information that you will need can be found in the *Sequential Files* and the *Modularization* folders that are in the *Chapter Replacements, Additions, & Book Notes* section in Blackboard.

Recommended Reading

List of discussion/lecture topics

Tentative Class Schedule			
Date	Topic	Java Text	Assignments
August 21	Introduction to Class		S e e A s s i g n m e n t s F o l d e r
23	Creating a Program	Chapter 1 All	
28	Using Data	Chapter 2 All	
30	Using Data (Continued)		
September 4	Using Methods	Chapter 3 Through p. 133	
6	Using Classes	Chapter 3 Finish	
11	Class Features	Chapter 4 Through p. 192	
13	More on Classes & Methods	Chapter 4 Finish	
18	Quiz 1		
20	Input & Decision Making	Chapter 5 Through p. 247	
25	Special Operators	Chapter 5 Finish	
27	Looping	Chapter 6 All	
October 2	Looping (Continued)		
4	TBD		
Friday, October 5 11:30am – 2:00pm	Exam 1 Meet in room XXXXX		
9	Strings	Chapter 7 All	
11	Strings (Continued)		
16	Arrays	Chapter 8 All	
18	Arrays (Continued)		
23	Inheritance	Chapter 10 Through p. 483	
25	Super and Subclasses	Chapter 10 Finish	
30	Quiz 2		
November 1	Super and Subclasses (Continued)		
6	Files	Chapter 12 Replacement Read through p. 540	
8	Files (Continued)	Chapter 12 Replacement Finish Reading through p. 548.	

COURSE SYLLABUS

		Do <u>NOT</u> Finish the chapter. Do <u>NOT</u> finish the YDI	
13	Files (Continued		
15	Flowcharts and Sequential File Processing	See <i>Sequential Files</i> folder in Blackboard	
20	Sequential File Processing	See <i>Sequential Files</i> folder in Blackboard	
22	Thanksgiving Holiday		
27	Modularization	See <i>Modularization</i> folder in Blackboard	
29	Modularization	See <i>Modularization</i> folder in Blackboard	
Tuesday, December 4 2:00pm - 5:00pm	Exam 2 Meet in room XXXXXX		