

## Syllabus for BA 3806: Managerial Applications of Object-Oriented Programming – 1

**Location:** 134 SSB  
**Hours:** T, R 11.00 A.M – 12.15 PM  
**Instructor:** Mudigonda, Srikanth  
**Office hours:** T, R 9.30.00 AM – 10.30 AM; by appointment  
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### Course Objectives

The purpose of this course is to help you achieve the following goals:

- develop a foundation in creating computer programs using the concepts of object-oriented programming
- utilize this foundation to develop programs in the Java programming language
- be prepared for tackling advanced object-oriented programming concepts and applications in the future (e.g., in the course BA 3816, through self-study, etc.)

### Student Responsibilities

You are expected to attend classroom sessions and actively participate by asking questions, providing answers to the questions posed and adding your thoughts to the discussion. To make your participation meaningful both to yourself and to your classmates, you are expected to come to the class prepared: this implies that you read the notes posted on MyGateway (under *Course Documents*) and also go over the programs from previous sessions.

Attendance is not mandatory; however, attending classes regularly helps you learn efficiently and also get acquainted with your classmates who might prove to be helpful when you are working on your assignments and preparing for exams.

### Plan of Study

The class meets twice a week; there are no mandatory lab sessions. We will go over both concepts (theory) as well as their applications (exercises) in class. Classroom-time will be spent going over concepts (about 50% of the time) and working on exercises that apply the concepts (remaining proportion of the time). The following is a tentative sequence of concepts that would be covered this semester.

Topic	Week
Introduction	1
Primitive Data Types and Operations	1, 2
Selection Statements	3, 4
Iterative statements (loops)	4, 5
<i>Exam 1</i>	
Methods	7, 8
Arrays	9, 10
Objects and Classes	11, 14
Strings and Text I/O	15, 16
Exceptions	17
<i>Exam 2</i>	

### Learning Materials

There is no required textbook for the course. Lecture notes pertaining to each topic would be made available through MyGateway (under 'Course Documents'). Additionally, the source code of the in-class exercises would also be made available. The notes and the source code that we develop provide sufficient learning material for this course. The API documentation pertaining to Java, located at Sun Microsystems' website is another source that we would use during the semester.

Though there is no required textbook for the course, the following book is recommended: *Introduction to Java Programming – Comprehensive Edition* by Y. Daniel Liang, Sixth Edition, published by Prentice Hall, ISBN: 013222158

The above-cited book serves as a good reference for this course as well for any future work that you might want to do in Java.

### Evaluation Methods

Your performance in this course will be evaluated via three components: classroom participation, assignments and exams. The following is the distribution of percentage points among the three components. The weights in the brackets indicate the percentage associated with each assignment/exam. As the course progresses, the complexity of the concepts you

learn also grows and your learning of the concepts is expected to progress accordingly. This is reflected in the increasing weight of each assignment and exam.

<b>Component</b>	<b>Weight</b>
Classroom participation	5.00%
Assignments - 3	30% (6% + 10% + 14%)
Exams - 2	65% (30% + 35%)

Programming, particularly in a professional scenario, involves teamwork. In order to get a feel for working with others in the creation of programs, and also to learn from each other, you are encouraged to collaborate with other students on your assignments. However, you are expected to turn in your work individually (i.e., each student will turn in an individually-completed assignment, even if the work is done in collaboration with others). Additionally, you are required to identify the names of the students (or others) from whom you sought help and/or with whom you collaborated on an assignment.

The exams will be given in class; you are required to work alone and not consult any individual for help with your exams. The specifics of each exam would be discussed in time.

### **Grading policy**

Assignment of grades is based on the following boundaries:

- A: Score  $\geq 90\%$ ;
- B:  $78 \leq$  Score  $< 90$
- C:  $60 \leq$  Score  $< 78$ ;
- D: Score  $< 60$ .

The assignment of a plus/minus grade will be made on a case-by-case basis, based on the overall performance of the student. Absence from an exam without prior permission from the instructor would result in an automatic F for the exam.

### **Academic dishonesty**

You are expected to adhere to the university's policy on academic dishonesty that is available at <http://www.umsl.edu/bulletin/undergraduate/policies.html>. Familiarize yourself with the policies listed at the above website. If you are doubtful about what is considered

appropriate during an exam, feel free to contact me. All cases of cheating (as defined in the academic policies) will be reported to the appropriate authorities.

**Access, Disability, Communication**

Students requiring special accommodations should meet me during office hours to discuss their needs and how they can be met. Prior to the meeting, students need to contact the office of Disability Access Services located in 144 Millenium Student Center (refer to <http://www.umsl.edu/services/disabled/> for more information).