MINNESOTA SCHOOL OF BUSINESS
GLOBE COLLEGE
TECHNICAL COURSE SYLLABUS

COURSE NUMBER:	**SD261**	COURSE TITLE:	JAVA PROGRAMMING
COURSE LENGTH:	12 WEEKS	CREDIT HOURS:	4
PREREQUISITES:	SD230	CONTACT HOURS:	60 (LECTURE 20 / LAB 40)

TEXT: INTRODUCTION TO JAVA AND SOFTWARE DESIGN
                                                    and
A LABORATORY COURSE IN JAVA, Dale, Weems, Headington,
published by Jones and Bartlett,   **ISBN (for bundle): 0763720232**

COURSE DESCRIPTION: This course covers basic concepts and techniques for programming, including variables, control structures (decision and looping), method writing, and simple class design and usage.

OBJECTIVES: Upon completion of this course, the student will be able to:

1. Apply an appropriate problem-solving method for developing an algorithmic solution to a problem.
2. Read syntax templates and understand the formal rules governing Java programs.
3. Construct code segments that display windows and messages.
4. Construct expressions with arithmetic operations.
5. Construct statements to display and to read values from data entry fields.
6. Apply the object-oriented design strategy to solve problems.
7. Construct *if, if-else, and while* statements.
8. Construct logical (Boolean) expressions.
9. Determine the lifetime of an object.
10. Construct count-controlled and event-controlled loops.

COURSE OUTLINE:

	Topics & Class Activities	**Required Reading**
Week 1	Programming Overview	Section 1
Week 2	Java Syntax and Semantics Data types Classes and Objects Event Driven Output	Section 2 and 3
Week 3	Numeric Types and Expressions Data Types Arithmetic Expressions	Section 4
Week 4	Even-Driven Input Software Design Strategies Object-oriented design	Section 5

Week 5	Conditions	Section 6
	Logical Expressions	
	Selection Control Structures	

Week 6	MIDTERM	

Week 7	Classes and Methods	Sections 7 and 8.1- 8.4
	Inheritance	

Week 8	File Input and Output (I/O)	Section 9
	Looping	

Week 9	Arrays	Section 11

Week 10	Programming Project (final)	

Week 11	Programming Project (final)	

Week 12	Programming Project (final)	
	Due Day.	

INSTRUCTIONAL METHODS: Class sessions will consist of instructor lectures, demonstrations, and projects.

ASSIGNMENT LOGISTICS / COMPUTER USE

It is crucial that students complete the daily reading and homework assignment before coming to class.

Printed copies of all related program files are to be turned in, together with an electronic copy of the source files on floppy. **You must keep a back - up copy of every program you submit.** You will need at least 4 diskettes for the course. Your grade will be vased not only on correctness, but also on style and good programming techniques.

LATE POLICY

Late Penalties. Late assignments will be penalized 10% per day up until the beginning of the next lecture class after which they will not be accepted. For example an assignment due on Monday at 8:30 AM receives a 10% late penalty if handed in before Tuesday at 8:30 AM and a 20% penalty if handed before Wednesday at 8:30 AM. Please don't ask for special consideration on these lateness penalties. It's not fair to those who struggle to get their work done on time.

If a program is not working perfectly, turn it in as is with detailed comments as to which parts are complete, and which are not. Include pseudocode for incomplete parts. You will be given more partial credit for correct pseudocode than for incorrect Java code. Exceptions for illness will be given only by instructor (not by any other person). *Exceptions for poor planning will not be given*.

EVALUATION METHODS:

Grades are an indicator of overall performance, achievement and participation. Students are responsible for completing all course requirements on time to receive credit. There will be no written tests; all evaluation will be on written and oral projects. The time for a final exam will be used for format projects presentations.

Written projects / reports	300
Classroom exercises	200
Final Project	300
Participation	<u>200</u>
	1,000

The Final Grade for the course is based on an accumulation of points in each of the above areas and weighted accordingly. A total of 1000 points are possible. These points are based on the following percentages:

100 -	90%	A
89 -	90	B
79 -	70	C
69 -	60	D
69	and lower	N/C

All items in this syllabus are subject to change to correct errors or if there is unanimous agreement that a change is desirable.