Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should <u>not</u> be used to purchase course materials.

LIBERTY
U N I V E R S I T Y.

COURSE SYLLABUS

CSIS 212
OBJECT-ORIENTED PROGRAMMING

COURSE DESCRIPTION

A study of the general-purpose, secure, object-oriented, portable programs. This course prepares students to program stand-alone applications. It will cover features such as programming concepts, data types, operators, flow control statements, objects, classes, methods, arrays, and strings. The concept of object-oriented programming is emphasized. (Formerly BMIS 212)

RATIONALE

This course features Java, which has become the language of choice for Internet-based and network based applications, as well as many stand-alone applications. By learning Java, students are equipped to utilize the current, portable language of programming. In addition, certification makes an individual more attractive and beneficial to potential employers, and to this end, students will want to seriously consider taking Oracle's Java Programmer I exam.

I.   PREREQUISITE

For information regarding prerequisites for this course, please refer to the Academic Course Catalog.

II.   REQUIRED RESOURCE PURCHASE

Click on the following link to view the required resource(s) for the term in which you are registered: http://bookstore.mbsdirect.net/liberty.htm

III.   ADDITIONAL MATERIALS FOR LEARNING

A.   Computer with basic audio/video output equipment

B.   Internet access (broadband recommended)

C.   Blackboard recommended browsers

D.   Microsoft Office

IV.   MEASURABLE LEARNING OUTCOMES

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

A.   Create a full functioning Java program in an Integrated Development environment.

B.   Compare the differences between primitive types and reference types.

C.   Differentiate between instance and local variables.

D. Write a Java application using multiple classes and constructors in an Integrated Development environment.

E. Develop a working Java application which uses proper data types, loops, conditional statements, function strings, arrays, inheritance, and polymorphism.

F. Discuss the relevance of course material and the use of technology to a biblical worldview.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

A. Textbook readings and presentations

B. Course Requirements Checklist

After reading the Course Syllabus and Student Expectations, the student will complete the related checklist found in Module/Week 1.

C. Discussion Board Forums (2)

The student is required to write a thread in response to the provided prompt for each forum. Each thread must be 300–500 words, demonstrate course-related knowledge and include at least 2 peer-reviewed citations, and 1 biblical integration citation in current APA format. In addition to the thread, the student is required to reply to at least 2 other classmates' threads. Each reply must be 250–350 words.

D. Programming Assignments (8)

The Programming Assignments consist of coding a program that solves a programming problem from as assigned scenario. The student will code the program by writing out the complete methods, classes, and programs. Some of the programming assignments are listed in the textbook and some assignments are created by the instructor. The student will complete the Programming Assignments assigned in every module/week and then submit 2 files showing his/her work. File 1 will be a Word document with a screen shot of the program run. File 2 is a zipped folder, which contains the programming codes.

E. Final Project

The Final Project involves coding a program that solves a programming problem based on Chapters 1 – 8. This project is due in week 8 and students will submit 2 files showing his/her work. File 1 will be a Word document with a screen shot of the program run. File 2 is a zipped folder, which contains the programming code.

F. Quizzes (6)

The student will take 6 quizzes that will assess the Reading & Study materials covered in throughout the course. Each quiz will be open-book/open-notes, contain 20 multiple-choice questions, and have a time limit of 45 minutes.

G.   Mid-Term Exam

The student will take a mid-term exam that will assess the Reading & Study materials covered in Modules/Weeks 1–4. The Mid-Term Exam is open-book/open-notes, contains 50 multiple-choice questions, and has a 2-hour time limit.

H.   Final Exam

The student will take a final exam that will assess the Reading & Study materials covered in Modules/Weeks 5–8. The Final Exam is open-book/open-notes, contains 50 multiple-choice questions, and has a 2-hour time limit.

VI.   COURSE GRADING AND POLICIES

A.   Points

Course Requirements Checklist		10
Discussion Board Forums (2 at 50 pts ea)		100
Programming Assignments (8 at 50 pts ea)		400
Final Project	(Modules 1-7)	80
Quizzes (6 at 20 pts ea)	(Modules 1–3, 5–7)	120
Mid-term Exam	(Module 4)	150
Final Exam	(Module 8)	150
	Total	**1010**

B.   Scale

A = 900–1000   B = 800–899   C = 700–799   D = 600–699   F = 0–599

C.   Quizzes/Tests/Exams

For timed quizzes/tests/exams, the student is required to complete the quiz/test/exam within the assigned time. Points will not be granted for questions completed after the time limit.

D.   Disability Assistance

Students with a documented disability may contact Liberty University Online's Office of Disability Accommodation Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport.

If you have a complaint related to disability discrimination or an accommodation that was not provided, you may contact ODAS or the Office of Equity and Compliance by phone at (434) 592-4999 or by email at equityandcompliance@liberty.edu. Click to see a full copy of Liberty's Discrimination, Harassment, and Sexual Misconduct Policy or the Student Disability Grievance Policy and Procedures.

COURSE SCHEDULE

CSIS 212

Textbooks: Deitel & Deitel, *Java: How to Program* (2017).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Deitel & Deitel: chs. 1–2 2 presentations	Course Requirements Checklist Undergraduate Level Business Program Class Introductions Programming Assignment 1 Quiz 1	10 0 0 50 20
2	Deitel & Deitel: ch. 3 1 presentation	DB Forum 1 Programming Assignment 2 Quiz 2	50 50 20
3	Deitel & Deitel: ch. 4 1 presentation (review)	Programming Assignment 3 Quiz 3	50 20
4	Deitel & Deitel: ch. 5 1 presentation	Programming Assignment 4 Mid-Term Exam	50 150
5	Deitel & Deitel: ch. 6 1 presentation	DB Forum 2 Programming Assignment 5 Quiz 4	50 50 20
6	Deitel & Deitel: chs. 7–8 1 presentation	Programming Assignment 6 Quiz 5 Programming Assignment 7 Quiz 6	50 20 50 20
7	Deitel & Deitel: chs. 9–10 1 presentation	Programming Assignment 8	50
8	Deitel & Deitel: chs. 1–10 (review)	Final Project Final Exam	80 150
		TOTAL	**1010**

DB = Discussion Board

NOTE: Each course week, (except Module/Week 1), begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final week ends at 11:59 p.m. (ET) on **Friday**.