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 UNIVERSITY

COURSE SYLLABUS

CSIS 327

INTRODUCTION TO ORACLE

COURSE DESCRIPTION

This course introduces the fundamentals of database design using an Oracle platform. Database administration will be introduced as well as the basic concepts of data manipulation in an Oracle environment. (Formerly BMIS 326)

RATIONALE

Businesses rely upon database management systems to operate successfully in competitive markets. Oracle is an industry leader in the world's most advanced database management systems. It is essential for students to learn how to use programming languages to access and manipulate data in the foremost database management systems.

I. PREREQUISITES

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. RECOMMENDED RESOURCE PURCHASE

Ries, S. (2011). *OCA Oracle database 11g: SQL fundamentals I: A real-world certification guide*. Packt Publishing. ISBN: 9781849683647.

IV. ADDITIONAL MATERIALS FOR LEARNING

A. Computer

B. Internet access (broadband recommended)

C. Microsoft Word
(Microsoft Office is available at a special discount to Liberty University students.)

V. Measurable Learning Outcomes

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

A. Describe the structured query language (SQL) fundamentals of Oracle databases.

B. Manipulate data in an Oracle database using SQL expressions, clauses, operations and functions.

C. Write advanced SQL sub queries, set operators, sequences, and views to solve business problems.

D. Use the data manipulation language (DML) and data definition language (DDL) to control databases and tables.

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

VI. Course Requirements and Assignments

A. Textbook readings

B. Course Requirements Checklist

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

C. Discussion Board Forums (4)

In Modules/Weeks 1–3 and 6, the student will answer questions in Discussion Board Forums. The student must post a thread of 250 words in length and a 100-word reply to at least 2 classmates' threads.

D. Assignments (11)

At the end of each lesson in Modules/Weeks 1–7, the student will be required to answer applicable questions. To answer the questions, the student will need to setup and configure his/her Oracle database and the tables associated with the exercises. Programming code will be written against his/her local database.

E. Database Project

Throughout each module/week of the course, the student will design and create an Oracle database system. The system must meet a current business need that is appropriate to the learned course content. Upon completion of design and creation, the student will write relevant business reports that allow the business to track key performance indicators. All components will be compiled into one final submission.

F. Exams (2)

The Midterm Exam will be administered in Module/Week 4 and will assess student comprehension of Oracle eKit material from Lessons 1–6. The Final Exam will be administered in Module/Week 8 and will assess student comprehension of Oracle eKit material from Lessons 7–11.

VII. COURSE GRADING AND POLICIES

A. Points

Course Requirements Checklist		10
Discussion Board Forums (4 at 25 pts ea)		100
Assignments (10 at 25 pts ea, 1 at 50 pts ea)		300
Database Project		200
Midterm Exam	(Modules 1–4)	200
Final Exam	(Modules 5–8)	200
	Total	1010

B. Scale

A = 900–1010 B = 800–899 C = 700–799 D = 600–699 F = 0–599

C. Policies

Academic Dishonesty and Plagiarism

Students are expected to uphold Liberty University's policies on academic dishonesty and plagiarism. All work is expected to be original for the purpose of this course.

D. Disability Assistance

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

VIII. BIBLIOGRAPHY

Ries, S. (2011). *OCA Oracle database 11g: SQL fundamentals I: A real-world certification guide*. Packt Publishing. ISBN: 9781849683647.

Watson, J., & Ramklass, R. (2008). *OCA Oracle database 11g: SQL fundamentals I: exam guide (exam 1Z0-051).* Oracle Press. ISBN: 9780071597869.

LIBERTY UNIVERSITY

COURSE SCHEDULE

CSIS 327

Oracle eKit for Oracle Database 11g: Administration I, Exam Number: 1Z0-052
Certification: Oracle Database 11g Administrator Certified Associate

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	eKit: Appendices B–C, Introduction, and Lesson 1 Database: 11g – SQL Fundamentals 1 1 presentation	Course Requirements Checklist DB Forum 1 Assignment 1	10 25 25
2	eKit: Appendix D and Lessons 2–3 Database: 11g – SQL Fundamentals 1 1 presentation	DB Forum 2 Assignment 2 Assignment 3	25 25 25
3	eKit: Lessons 4–5 Database: 11g – SQL Fundamentals 1 1 presentation	DB Forum 3 Assignment 4 Assignment 5	25 25 25
4	eKit: Appendix F and Lesson 6 Database: 11g – SQL Fundamentals 1 1 presentation	Assignment 6 Midterm Exam	25 200
5	eKit: Lessons 7–8 Database: 11g – SQL Fundamentals 1 1 presentation	Assignment 7 Assignment 8	25 25
6	eKit: Lesson 9 Database: 11g – SQL Fundamentals 1 1 presentation	DB Forum 4 Assignment 9	25 50
7	eKit: Lesson 10 Database: 11g – SQL Fundamentals 1 1 presentation	Assignment 10 Assignment 11	25 25
8	eKit: Lesson 11 Database: 11g – SQL Fundamentals 1 1 presentation	Database Project Final Exam	200 200
		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.