

**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 not be used to purchase course materials.**

## ***COURSE SYLLABUS***

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### **CSIS 208**

#### **APPLICATION PROGRAMMING**

#### **COURSE DESCRIPTION**

Development of computer and programming skills, problem solving methods, and selected applications. This course provides a broad-based introduction to programming in Visual Basic. Students will learn how to build a program from the design phase all the way through to delivery. (Formerly BMIS 208)

#### **RATIONALE**

This is the only programming course in the core of the CSIS program. It provides the foundational programming knowledge and is the pre-requisite for all subsequent classes in the CSIS program.

#### **I. PREREQUISITE**

For information regarding prerequisites for this course, please refer to the [Academic Course Catalog](#).

#### **II. REQUIRED RESOURCE**

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 Word, Excel, and Access

#### **IV. MEASURABLE LEARNING OUTCOMES**

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

- A. Develop code using Visual Studio IDE effectively for creating and debugging software using control structures for sequence, selection (IF-THEN-ELSE, CASE), and iteration (FOR-NEXT, WHILE, UNTIL).
- B. Create sub-procedures and functions while using variables in designing modular programs.
- C. Integrate 1- and 2-dimensional arrays in program logic.
- D. Manipulate text files and databases.

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

**V. COURSE REQUIREMENTS AND ASSIGNMENTS**

- A. Textbook readings and lecture 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 (1)

The student will participate in 1 Discussion Board Forum. The purpose of this forum is to generate interaction among students in regard to relevant current course topics. The student will post a thread of at least 250 words, including 2 citations in current APA. The student will also post 2 replies of at least 100 words each, including 1 citation in current APA format.

- D. Programming Assignments (8)

The student will complete Programming Assignments designed to reinforce and measure understanding of the materials covered in the assigned readings. Each assignment will be submitted via zipped solution files through Blackboard.

- E. Quizzes (7)

The student will complete 6 quizzes throughout the course. The quizzes will cover the assigned reading, are open-book/open-notes, and include a combination of 20 multiple-choice and true/false questions each.

- F. Final Exam

The student will complete a Final Exam covering all of the assigned reading in the course. The Final Exam is open-book/open-notes, comprehensive, and includes a combination of 50 multiple-choice and true/false questions.

**VI. COURSE GRADING AND POLICIES**

- A. Points

|  |             |
|--|-------------|
| Course Requirements Checklist            | 10          |
| Discussion Board Forums (1 at 50 pts ea) | 50          |
| Programming Assignments                  | 710         |
| Quizzes (7 at 20 pts ea)                 | 140         |
| Final Exam                               | 100         |
| <b>Total</b>                             | <b>1010</b> |

- B. Scale

A = 900–1010 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. For the student who exceeds this time limit, a penalty of 1 point will be deducted for each minute, or part thereof, he/she exceeds the assigned time limit.

D. Disability Assistance

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

## ***COURSE SCHEDULE***

### **CSIS 208**

Textbook: Zak, *Programming with Microsoft Visual Basic (2017)*.

| <b>MODULE/<br/>WEEK</b> | <b>READING &amp; STUDY</b>                      | <b>ASSIGNMENTS</b>                   | <b>POINTS</b> |
|-------------------------|---|--------------------------------------|---------------|
| <b>1</b>                | Zak: chs. 1-2<br>2 documents<br>4 presentations | Course Requirements Checklist        | 10            |
|                         |   | Undergraduate Level Business Program | 0             |
|                         |   | Assessment                           | 0             |
|                         |   | Affirmation Statement                | 0             |
|                         |   | Class Introductions                  | 80            |
|                         |   | Programming Assignment 1             | 20            |
|                         |   | Quiz 1                               |               |
| <b>2</b>                | Zak: chs. 3-4<br>3 presentations                | Programming Assignment 2             | 90            |
|                         |   | Quiz 2                               | 20            |
| <b>3</b>                | Zak: chs. 5-6<br>2 presentations                | Programming Assignment 3             | 90            |
|                         |   | Quiz 3                               | 20            |
| <b>4</b>                | Zak: chs. 7-8<br>2 presentations                | Programming Assignment 4             | 90            |
|                         |   | Quiz 4                               | 20            |
| <b>5</b>                | Zak: ch. 9<br>2 presentations                   | Programming Assignment 5             | 90            |
|                         |   | Quiz 5                               | 20            |
| <b>6</b>                | Zak: ch. 10<br>1 presentation                   | DB Forum 1                           | 50            |
|                         |   | Programming Assignment 6             | 90            |
|                         |   | Quiz 6                               | 20            |
| <b>7</b>                | Zak: chs: 11-12<br>2 presentations              | Programming Assignment 7             | 90            |
|                         |   | Quiz 7                               | 20            |
| <b>8</b>                | Zak: ch. 13<br>1 presentation                   | Programming Assignment 8             | 90            |
|                         |   | Final Exam                           | 100           |
| <b>TOTAL</b>            |   |                                      | <b>1010</b>   |

DB = Discussion Board

**NOTE:** Each course module/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 module/week ends at 11:59 p.m. (ET) on **Friday**.