

**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 110**

#### **INTRODUCTION TO COMPUTING SCIENCES**

#### **COURSE DESCRIPTION**

A breadth-first introduction to the computing disciplines, with an emphasis on computer ethics and how computing technology impacts the world. Topics include: computing history; discrete mathematics; computer architecture and organization; algorithm design; languages; compilers; operating systems; applications; networks; databases; intellectual property; privacy; free speech; social consequences; computer crime; and codes of conduct. (Formerly CSCI 110)

#### **RATIONALE**

This course is an introductory and prerequisite course taught to computer technology students. It touches all computing disciplines, which allows new students to gain a foundational perspective of the entire computer technology curriculum.

#### **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. RECOMMENDED RESOURCE PURCHASE**

American Psychological Association. *Publication manual of the American Psychological Association* (Current ed.). Washington, DC: Author.

#### **IV. ADDITIONAL MATERIALS FOR LEARNING**

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Blackboard [recommended browsers](#)
- D. Microsoft Office

**V. MEASURABLE LEARNING OUTCOMES**

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

- A. Demonstrate knowledge of computing through examination(s) and projects.
- B. Summarize his or her understanding of ethical issues in computing through examination and in-class discussion.
- C. Analyze the local and global impact of computing on individuals, organizations, and society.
- D. Recognize the need for an ability to engage in continuing professional development.
- E. Apply a biblical worldview to Computing Sciences.

**VI. 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 (5)

Discussion boards are collaborative learning experiences. Therefore, the student is required to create a thread in response to the provided prompt for each forum. Each thread must be at least 350 words, integrate at least 2 biblical principles, and demonstrate course-related knowledge. In addition to the thread, the student is required to reply to at least 1 classmate's thread. Each reply must be at least 250 words. All sources must be cited in current APA format.

- D. Article Reviews (3)

The student will review the assigned articles using the provided template. This template includes the bibliographic reference, article objectives and summary, the student's critique of the article, and any questions engendered by reading the article.

- E. Paper

The student will write a 1,000–1,500-word research-based paper in current APA format that focuses on a career of his or her choice in computer technology. The paper must include at least 5 references in addition to the Bible.

F. Midterm Exam

The Midterm Exam will cover the Reading & Study material for Modules/Weeks 1–4. The exam will be open-book/open-notes and contain 30 true/false and multiple-choice questions as well as 5 essay questions. The time limit for the exam will be 2 hour.

G. Final Exam

The Final Exam will cover the Reading & Study material for Modules/Weeks 5–8. The exam will be open-book/open-notes and contain 30 true/false and multiple-choice questions as well as 5 essay questions. The time limit for the exam will be 2 hours.

**VII. COURSE GRADING AND POLICIES**

A. Points

Course Requirements Checklist		10
Discussion Board Forums (5 at 50 pts ea)		250
Article Reviews (3 at 50 pts ea)		150
Paper Proposal		20
Paper Executive Summary		50
Paper		150
Quizzes (4 at 20 pts)		80
Midterm Exam	(Modules 1–4)	150
Final Exam	(Modules 5–8)	150
	<b>Total</b>	1010

B. Scale

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

C. 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 110**

Textbook: Dale & Lewis, *Computer Science Illuminated* (2016).

<b>MODULE/ WEEK</b>	<b>READING &amp; STUDY</b>	<b>ASSIGNMENTS</b>	<b>POINTS</b>
<b>1</b>	Dale & Lewis: chs. 1–2 2 presentations	Course Requirements Checklist Class Introductions DB Forum 1	10 0 50
<b>2</b>	Dale & Lewis: chs. 3–4 2 presentations	Research Paper Proposal Article Review 1 Quiz 1	20 50 20
<b>3</b>	Dale & Lewis: chs. 5–6 2 presentations	DB Forum 2 Article Review 2	50 50
<b>4</b>	Dale & Lewis: chs. 7–8 2 presentations	Paper Executive Summary DB Forum 3 Quiz 2	50 50 20
<b>5</b>	Dale & Lewis: chs. 9–10 2 presentations	DB Forum 4 Midterm Exam	50 150
<b>6</b>	Dale & Lewis: ch. 11 1 presentation	DB Forum 5 Quiz 3	50 20
<b>7</b>	Dale & Lewis: chs. 13–15 2 presentations	Paper Quiz 4	150 20
<b>8</b>	Dale & Lewis: chs. 16–17 2 presentations	Article Review 3 Final Exam	50 150
<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**.