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.

LIBERTY UNIVERSITY Online

COURSE SYLLABUS

CMIS 110
COMPUTING FOUNDATIONS AND ETHICS

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.

RATIONALE

The Management Information Systems program provides the student with a solid foundation in business and technology, developing skills that prepare the student to effectively apply information technology to improve business processes across a broad spectrum of disciplines. Through this course he or she will understand the historical context of modern digital technologies, the organization and use of networks, the Internet and the World Wide Web and appreciate the ethical, moral, societal and legal issues surrounding computers and computer networks.

I. PREREQUISITES

MATH 110 and INFT 110 or successfully passing the computer assessment, or approval of instructor.

II. REQUIRED RESOURCE PURCHASES

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

III. ADDITIONAL MATERIALS FOR LEARNING

A. Computer with basic audio and video equipment

B. Internet access (broadband recommended)

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

IV. MEASURABLE LEARNING OUTCOMES

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

A. Apply basic discrete mathematics concepts, specifically Boolean logic, binary arithmetic, number systems, and truth tables to solve simple logic and base conversion problems.

B. Demonstrate basic proficiency with the basic "tools" of technology, such as compilers, office applications, networking tools, databases, etc., by completing relevant tasks associated with each application.

C. Describe the six layers that make up the design of a computing system and identify roles in which humans interact with those layers in the computing discipline.

D. Evaluate the relevant issues needed to make moral decisions when confronted with ethical-socio-technical dilemmas.

E. Generate pseudocode algorithms when presented with simple logical computing problems.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

A. Textbook readings and presentations

B. Class Introductions

In Module/Week 1, students will submit an initial thread in Discussion Board introducing themselves to the class by 11:59 p.m. (ET) on Friday. Students will then greet at least two other students by replying to their initial threads by 11:59 p.m. (ET) on Monday.

C. Discussion Board forums (8)

Each week, students will submit an initial thread of at least 250 words to the forum instructions by 11:59 p.m. (ET) on Friday. Each submission should contain information that supplements, contradicts, questions, or further discusses the subject given. Students will then reply to at least two other students' threads by 11:59 p.m. (ET) on Monday.

D. Research Paper

The student will research an approved topic relating to the subject matter of the course and will write a paper in APA style on his or her findings. The paper should be at least 1500 words in length, must use at least 10 sources, and should include a table of contents and a bibliography. The paper is due in Module/Week 7.

E. Chapter Quizzes (11)

Every week, the student will complete a quiz for each chapter of that week's reading. The quizzes will each contain 20 true/false and multiple-choice questions and are open-book. Each quiz must be completed within one hour and may be taken any number of times; however, only the last score will be counted. Quizzes must be taken by the end of each module.

F. Exams (2)

The student will complete a Midterm and Final Exam. The Midterm will cover chapters 1–6, and the Final will cover chapters 7–11. Both are open-book, consist of 30 true/false and multiple-choice questions, and must be completed alone in one sitting within two hours. The Midterm will be taken in Module/Week 4, and the Final Exam will be taken in Module/Week 8.

VI. COURSE GRADING AND POLICIES

A. Points

DB Introductions Thread		10
DB Introductions Replies		8
DB Forum Threads (8 at 23 pts ea)		184
DB Forum Replies (8 at 16 pts ea)		128
Research Paper		150
Chapter Quizzes (11 at 20 pts ea)		220
Midterm Exam	(Modules 1–4)	150
Final Exam	(Modules 5–8)	150
	Total	1000

B. Scale

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

C. Policies

Late papers will not be accepted.

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.

VII. BIBLIOGRAPHY

Dale, N. & Lewis, J. (2007). *Computer science illuminated*. Sudbury, Massachusetts: Jones and Bartlett Publishers. ISBN: 0-763-74149-3.

O'Brien, J.A. & Marakas, G. (2008). *Management information systems with MISource 2007*, 8th edition. Boston, Massachusetts: McGraw-Hill/Irwin. ISBN: 0-073-32309-8.

LIBERTY UNIVERSITY Online

COURSE SCHEDULE

CMIS 110

Textbook: Valacich & Schneider, *Information Systems Today* (2010).

WEEK/ MODULE	READING & STUDY	ASSIGNMENTS	POINTS
1	Valacich & Schneider: chs. 1–2 13 presentations 2 websites	Course Requirements Checklist DB Introductions DB Forum 1 Chapter 1 Quiz Chapter 2 Quiz	0 10/8 23/16 20 20
2	Valacich & Schneider: chs. 3–4 15 presentations	DB Forum 2 Chapter 3 Quiz Chapter 4 Quiz	23/16 20 20
3	Valacich & Schneider: ch. 5 12 presentations 1 website	DB Forum 3 Chapter 5 Quiz	23/16 20
4	Valacich & Schneider: ch. 6 10 presentations	DB Forum 4 Chapter 6 Quiz Midterm Exam	23/16 20 150
5	Valacich & Schneider: chs. 7–8 19 presentations 1 article	DB Forum 5 Chapter 7 Quiz Chapter 8 Quiz	23/16 20 20
6	Valacich & Schneider: ch. 9 4 presentations	DB Forum 6 Chapter 9 Quiz	23/16 20
7	Valacich & Schneider: ch. 10 4 presentations	DB Forum 7 Chapter 10 Quiz Research Paper	23/16 20 150
8	Valacich & Schneider: ch. 11 6 presentations	DB Forum 8 Chapter 11 Quiz Final Exam	23/16 20 150
		TOTAL	**1000**

DB = Discussion Board

NOTE: Each course week (except 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.