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.

COURSE SYLLABUS

BMIS 580
HUMAN COMPUTER INTERACTION AND EMERGING TECHNOLOGIES

COURSE DESCRIPTION

This course addresses emerging technologies, how do they evolve and how to identify them. Topics covered in the course include accuracy of past forecasts and how to improve them, international perspectives on emerging technologies, future organizationally and customer trends and forecasting methodologies. It further explores human characteristics and their impacts on developing human-centered information systems. Finally, emerging trends in human interaction with mobile applications, internet applications, social networking technology, cloud computing and stand-alone applications will be explored.

RATIONALE

The purpose of this course is to provide the student with an overview of emerging technologies in the IT sector, including social media. Additionally, this course explores the human aspects and characteristics of technology; specifically, this course explores how humans interact with computer systems. This course provides the student with a foundation for recognizing emerging technologies and for designing HCI and GUI systems that are useful in a business setting.

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. ADDITIONAL MATERIALS FOR LEARNING

A. The Bible

B. Computer with basic audio/video output equipment

C. Internet access (broadband recommended)

D. Microsoft Word

E. Blackboard recommended browsers

F. Scanner

G. Microsoft Paint

H. Adobe Photoshop, or any other software program that allows for the creation of wireframe, storyboard, and prototype.

V. MEASURABLE LEARNING OUTCOMES

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

A. Integrate biblical principles within developing technologies.

B. Classify emerging developments in management information systems.

C. Critique methodology used to construct trends in business technologies.

D. Diagram historical technology forecasts and outcomes.

E. Design an application using justifiable human-computer action theory.

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 (3)

Discussion Boards are collaborative learning experiences. Therefore, the student is required to write a thread in response to the provided prompt for each forum. Each thread must be 500 words and must demonstrate course-related knowledge. Each thread must contain at least 2 citations in current APA format. In addition to the thread, the student is required to reply to 2 other classmates' threads and each reply must be 200 words. Each reply must also contain at least 2 citations in current APA format. Acceptable references or sources include the textbooks, the Bible, and peer-reviewed journal articles.

D. Emerging Technologies (3)

The student will write three 5-page research-based papers in current APA format each focusing on emerging technologies. Title pages and reference pages do not count toward the page requirement. The papers must include at least 7 references in addition to the course textbooks and the Bible.

E. Course Project

The course project will assess the student's ability to solve a complex Information System (IS) problem/challenge in an IS context of his/her interest. A specific focus of the project will be placed on Human Computer Interaction (HCI). In addition to HCI, this course project will assist the student in preparation for the MSIS capstone course. The course project consists of 6 phases/assignments: Project Proposal, Literature Review, Research Questions (RQ) / Scope / Business Case / Charter, WBS with Costs, Wireframe / Storyboard / Prototype / GUI, and Testing & Deployment.

VII. COURSE GRADING AND POLICIES

A. Points

Course Requirements Checklist	10
Discussion Board Forums (3 @ 50 pts ea.)	150
Emerging Technologies (3 @ 100 pts ea.)	300
Course Project	
Project Phase 1: Project Proposal	75
Project Phase 2: Literature Review	100
Project Phase 3: RQs, Scope, Case, & Charter	50
Project Phase 4: WBS with Costs	50
Project Phase 5: Wireframe, Storyboard	200
Project Phase 6: Testing & Deployment	75
Total	1010

B. Scale

A = 940–1010   A- = 920–939   B+ = 900–919   B = 860–899   B- = 840–859
C+ = 820–839   C = 780–819   C- = 760–779   F = 0–759

C. 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.

COURSE SCHEDULE

BMIS 580

MODULE/WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Friedman:Unit 1 Rogers et al.: ch. 1 Clark: chs. 1–2 1 presentation	Course Requirements Checklist Class Introductions Emerging Technologies 1	10 0 100
2	Friedman:Unit 6 Rogers et al.: chs. 2–3 Clark: chs. 3–4 1 presentation	DB Forum 1 Project Phase 1: Project Proposal	50 75
3	Friedman: Unit 2 Rogers et al.: chs. 4–5 Clark: chs. 5–6 1 presentation 2 PDFs	Project Phase 2: Literature Review	100
4	Friedman: Unit 3 Rogers et al.: chs. 6–7 Clark: review ch. 6 1 presentation 1 website 2 PDFs	DB Forum 2 Project Phase 3: RQ's, Scope, Case, & Charter	50 50
5	Friedman: Unit 4 Rogers et al.: chs. 8–9 Clark: chs. 7, 9 1 presentation 1 website	Project Phase 4: WBS with Costs Emerging Technologies 2	50 100
6	Friedman: Unit 5 Rogers et al.: chs. 10–11 1 presentation 1 website	DB Forum 3 Emerging Technologies 3	50 100
7	Friedman: Unit 7 Rogers et al.: ch. 12 1 presentation	Project Phase 5: Wireframe, Storyboard, Prototype/GUI	200
8	Friedman: Unit 8 1 presentation	Project Phase 6: Testing & Deployment	75
		TOTAL	**1010**

DB = Discussion Board

NOTE: Each course week begins on Monday morning at 12:00 a.m. (ET) and ends on Sunday night at 11:59 p.m. (ET). The final week ends at 11:59 p.m. (ET) on Friday.