COURSE SYLLABUS

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SECTION 1: COURSE INFORMATION

Format: Eight weeks/modules.

Course ID: BBUS 3853

Course Title: Essentials of Management Information Systems

College: College of Unrestricted Education - Department of Business & Leadership

Prerequisites: BBUS 2333

Credit Hours: 3

Instructor: See the online course in MyFIRE for instructor contact information and availability.

Course Description

This course addresses the basics of information technology, information systems, and the management of information systems. Students apply abstract and systems thinking skills to design and implement an information system. Many course elements are completed in teams using online collaboration tools

Course Overview

Management Information Systems, or MIS, is course within the curriculum that bridges the gap between computer science and the traditional business disciplines such as accounting, finance, marketing, and management. The term "Management Information Systems" conjures up different meanings. Common among these many definitions is that MIS represent a collection of people, processes and technologies that manage the information and communication resources of an organization. In this course, you will learn how information systems and applications are designed to solve business problems. Of course, no course in MIS would be complete if you didn't learn some basic coding language. In fact, you'll have the opportunity to develop your own simple game application! You'll find it is actually rather easy. Finally, you will participate in a case simulation in which you will use data analysis and information to make business decisions.

Course Workload

Time spent on course assignments will vary by student depending on familiarity with course content, reading rate of speed, writing rate of speed, and other individual factors. Based on averages for most students, it is estimated that the course workload estimate for this course is **55.2 (6.9 hours per week).**

Course Materials

All the course reading material is included in the course. There are not outside textbooks to purchase. You will be provided a license code to the MISSimulation case simulation used in the second half of the course.

Disclaimer: The resources utilized in this course provide information, thoughts and insights that should encourage critical thinking on the part of the student. Please note as well that as an Assembly of God institution, Southeastern University does not necessarily endorse specific personal, religious, philosophical, or political positions found in these resources.

Course Topics

The purpose of this course is to introduce, reinforce, and measure learning on the following topics:

- Introduction to Systems Design
- Business Analysis
- User-Centered Design
- Code Camp
- Business Intelligence and Data Analysis
- Data Analysis and MISSimulation: Rounds 1-3
- Data Analysis and MISSimulation: Rounds 4-6
- Simulation Final Round and Security

Intended Learning Outcomes

As a result of reading, study, and assessments in this course, the student should be able to:

1. Demonstrate understanding of information systems foundations including the parts of a system, the steps for designing a system (SDLC), and prototypical systems types.
2. Define requirements for an information system to address a business problem.
3. Design an information system to meet business requirements.
4. Demonstrate an understanding of coding concepts including algorithms, events and syntax.
5. Create and implement a data-driven decision-making strategy to solve a business problem, and evaluate and modify this strategy at a basic level.
6. Create and implement a data-driven decision-making strategy to solve a business problem, and evaluate and modify this strategy at an advanced

level; discuss security threats and needs.

7. Reflect on the roles of information systems for all business functions with focus on issues relevant to Christians in the workplace; evaluate data driven decision strategy.

Key Performance Indicators

In this course you will submit several assignments that demonstrate your ability to apply concepts and skills in information system management. This includes among other the requirements document for an application, a short game application build with JavaScript using "block" language. You will also participate in a simulation in which you conduct data analysis to help a hypothetical political candidate market him/herself to gain votes in an election. You will interact with your classmates in discussion forums to demonstrate your ability to understand the role of MIS in an organization. Finally, you will demonstrate your comprehension of key terms and concepts of MIS by completing online quizzes.

Late Work

None accepted without prior permission of the instructor for emergencies.

Extra Credit

None Accepted

SECTION 2: SOUTHEASTERN POLICIES

Academic Policies

View this link to see Southeastern's Policies regarding SEU's Mission and Vision Statements, Title IX Statement, Student Services, Class Participation, Official Email, MyFIRE Use, Technical Difficulties, Technical Support, Disability Statement, Academic Honesty, Course Evaluation, Official Withdrawal, Grading Scale, and Netiquette.

SECTION 3: COURSE SCHEDULE

The **Course Schedule** provides a listing of your work in this course. The assessments are listed by Module and include the due dates and point values.

Note: Assignments are due by 11:59 p.m. EST on the due date, unless otherwise noted.

AIM, LEARN, AND APPLY DESCRIPTIONS

Aim

 When you see the Aim icon, you will be introduced to topics and ideas that will be covered throughout this module. The AIM will also provide you with a glimpse into your learning objectives and an introduction to this module.

Learn

 When you see the Learn icon, all of your reading assignments will be listed and may include additional resources that your instructor is providing to help you complete the activities and assessments for the module.

Apply

 When you see the Apply Icon, it will be time to demonstrate your learning for the module. The items here are those in which you'll be graded and may include discussions, activities, assignments, quizzes, exams, and projects.

MODULE 1:
XX/XX/XX – XX/XX/XX

Aim

- Describe the essential components of an information system.
- Identify the steps for developing information system design.
- Identify collaboration and integration strategies of information system
- Apply the steps by which information systems should be designed.
- Compare and contrast enterprise, collaboration and business intelligence systems.

Learn

- Read: Lesson 1 - Essential Components of an Information System
- Read: Lesson 2 - Steps for Developing Information System Design
- Read: Lesson 3 - An Overview of Information System Collaboration and Integration
- Read: Glossary for Module 1

Apply

- Discussion for Module 1
    - Due: Thursday, Tuesday
    - Points: 30
- Assignment for Module 1: Application Description Summary
    - Due: Monday
    - Points: 10

- Key Terms for Module 1

- Due: Monday
- Points: 10

- Concept and Application Exam for Module 1
  - Due: Tuesday
  - Points: 20

MODULE 2:
XX/XX/XX – XX/XX/XX

Aim

- Identify a business process.
- Identify how to analyze and solve a business problem from the customer's point of view.
- Determine user requirements to be addressed to encourage adoption of an information system.
- Translate general information systems requirements to process flows.

Learn

- Read: Lesson 1 - Business Process Mapping
- Read: Lesson 2 - Analyzing from the Customer's Point of View
- Read: Glossary for Module 2

Apply

- Discussion for Module 2
  - Due: Thursday, Tuesday
  - Points: 30
- Assignment 1 for Module 2: Analysis and As-Is Business Process
  - Due: Monday
  - Points: 10
- Key Terms Quiz for Module 2
  - Due: Monday

- Points: 10

- Assignment 2 for Module 2: Requirements and To-Be Business
    - Due: Tuesday
    - Points: 10
- Concept and Application Exam for Module 2
    - Due: Tuesday
    - Points: 10

MODULE 3:

XX/XX/XX – XX/XX/XX

Aim

- Identify basic graphic design principles.
- Identify how to make appropriate marketing and branding considerations.
- Identify planning and design principles for apps.
- Implement process flows for a new information system.
- Apply user-centered design principles to a new information system.

Learn

- Read: Lesson 1 – Basic Graphic Design Principles
- Read: Lesson 2 – Marketing Considerations
- Read: Lesson 3 – App Design
- Read: Glossary for Module 3

Apply

- Discussion for Module 3
  - Due: Thursday, Tuesday
  - Points: 30
- Assignment 1 for Module 3: Describe the attributes of an App
  - Due: Monday
  - Points: 25
- Key Terms Quiz for Module 3
  - Due: Monday

- Points: 10

- Assignment 2 for Module 3: Icon Design
  - Due: Tuesday
  - Points: 10
- Concept and Application Exam for Module 3
  - Due: Tuesday
  - Points: 10

MODULE 4:
XX/XX/XX – XX/XX/XX

Aim

- Identify the basics of coding.
- Select and apply appropriate code blocks to accomplish programming objectives.
- Create JavaScript code to accomplish programming objectives.
- Choose appropriate algorithms to accomplish programming objectives
- Demonstrate understanding of coding concepts, algorithms, code blocks, and JavaScript.

Learn

- Read: Lesson 1 – Hour of Code

Apply

- Discussion for Module 4
  - Due: Thursday, Tuesday
  - Points: 30
- Assignment 1 for Module 4: Basic Hour of Code
  - Due: Monday
  - Points: 10
- Assignment 2 for Module 4: Hour of Code Build a Game App
  - Due: Monday
  - Points: 10

- Assignment 3 for Module 4: Hour of Code Application Upload
    - Due: Monday
    - Points: 10
- Concept and Application Exam for Module 4
    - Due: Tuesday
    - Points: 10

MODULE 5:
XX/XX/XX – XX/XX/XX

Aim

- Identify types of business intelligence.
- Determine what type of business intelligence report is required to solve various problems.
- Identify basic data analysis using spreadsheets
- Apply data analysis in a simulation in preparation for competition.

Learn

- Read: Lesson 1 – Business Intelligence
- Read: MISSiumlation Instructions for Module 5
- Read: Glossary for Module 5

Apply

- Discussion for Module 5
  - Due: Thursday, Tuesday
  - Points: 30
- Key Terms Quiz for Module 5
  - Due: Friday
  - Points: 10
- MISSimulation FAQ Quiz for Module 5
  - Due: Monday
  - Points: 15

- Assignment for Module 5: MISSimulation Practice
    - Due: Tuesday
    - Points: 10

MODULE 6:

XX/XX/XX – XX/XX/XX

Aim

- Create, implement, evaluate and modify a data-driven strategy to Identify areas of focus to address a business problem.
- Create, implement, evaluate and modify a data-driven strategy to achieve business objectives.
- Create, implement, evaluate and modify a data-driven strategy to create market share enhancing strategies.
- Create, implement, evaluate and modify a data-driven strategy to increase ROI.
- Create, implement, evaluate and modify a data-driven strategy to understand and counter competitive actions.

Learn

- Read: MISSiumlation Instructions for Module 6

Apply

- Discussion for Module 6
  - Due: Thursday, Tuesday
  - Points: 30
- Assignment 1 for Module 6 : MISSimulation Round 1
  - Due: Saturday
  - Points: 10
- Assignment 2 for Module 6 : MISSimulation Round 2

- Due: Monday
- Points: 10

- Assignment 3 for Module 6 : MISSimulation Round 3
  - Due: Tuesday
  - Points: 10

MODULE 7:
XX/XX/XX – XX/XX/XX

Aim

- Create, implement, evaluate and modify a data-driven strategy to Identify areas of focus to address a business problem.
- Create, implement, evaluate and modify a data-driven strategy to achieve business objectives.
- Create, implement, evaluate and modify a data-driven strategy to create market share enhancing strategies.
- Create, implement, evaluate and modify a data-driven strategy to increase ROI.
- Create, implement, evaluate and modify a data-driven strategy to understand and counter competitive actions.

Learn

- Read: MISSiumlation Instructions for Module 7

Apply

- Discussion for Module 7
  - Due: Thursday, Tuesday
  - Points: 30
- Assignment 1 for Module 7 : MISSimulation Round 4
  - Due: Saturday
  - Points: 10
- Assignment 2 for Module 7 : MISSimulation Round 5

- Due: Monday
- Points: 10

- Assignment 3 for Module 7 : MISSimulation Round 6
  - Due: Tuesday

MODULE 8:

XX/XX/XX – XX/XX/XX

Aim

- Identify the types of information security.
- Determine what type of business intelligence report is required to solve various problems.
- Identify basic data analysis using spreadsheets.
- Apply data analysis in a simulation in preparation for competition.

Learn

- Read: Lesson 1 – Information Security
- Read: MISSiumlation Instructions for Module 8: Final Round

Aim

- Discussion for Module 8
  - Due: Thursday, Tuesday
  - Points: 30
- Assignment 1 for Module 8 : MISSimulation Round 7
  - Due: Saturday
  - Points: 10
- Assignment 2 for Module 8 : IT Security Assignment
  - Due: Monday
  - Points: 10
- Final Reflection

- Due: Tuesday
- Points: 120

SECTION 4: ASSESSMENTS

Vocabulary Quizzes

Description

In several modules, you will complete quiz on the definition of terms introduced.

Total Possible Points

100

Application and Concepts Exams

Description

In several modules you will complete exam questions regarding concepts and application of MIS theory. These include a combination of multiple choice and matching.

Total Possible Points

150

Discussion Forums

Description

You will participate in discussion forums and contribute to the topics by making initial postings and then interacting with other students. Your evaluation is based on the contribution you make to the dialog.

Total Possible Points

160

Assignments

Description

In several modules, you'll complete assignments that apply to the concepts and topics presented.

Total Possible Points

190

Simulation Results

Description

You will participate in a series of seven (7) decisions to advance the campaign of a hypothetical political candidate. You will be competing against other students and use data analysis to make your decisions. At the end of the seven decisions, voters will select a candidate. Your point total will be assigned based on your candidate's final standing in the following way:

- 100 points for winning the election.
- 90 points for second place.
- 80 points for third place or after.

Total Possible Points

200 Points

Final Reflection

Description

A reflection assignment that summarizes what you've learned throughout the course.

Total Possible Points

150

SECTION 5: SELECTED BIBLIOGRAPHY & WEB RESOURCES

Information Systems: A Manager's Guide to Harness Technology.

Creative Commons License produced by the University of Minnesota Libraries Publishing through the eLearning Support Initiative.

http://open.lib.umn.edu/informationsystems/front-matter/publisher-information/

Association for Information Systems. A society in the advancement of knowledge and excellence in the study and profession of information systems. https://aisnet.org/