Syllabus

Course:  CIS 300 Foundations of Information Systems

Course Description:
Introduces contemporary information systems concepts. Focuses on business processes, software, hardware, data, and communication technologies, and how these components can be integrated and managed to create business competitive advantage. Hands-on experience with SAP ERP software.

Prerequisite Courses:
None

Course Overview
This course is designed to introduce you to contemporary issues related to Information Technology and Information Systems. The role of Information Technology in an organization continues to change and be guided by the specific goals and objectives of an organization. Information Technology topics include software, hardware, data management, systems, networks, security, communication, ethics, business intelligence, and operational organization. These topics will be covered during the course with an emphasis on integration and meeting the strategic and competitive needs of an organization.

In addition to covering the topics listed above, an emphasis will also be placed on Enterprise applications. Specifically you will have an opportunity to read and discuss how Enterprise applications can be developed, implemented and utilized by organizations to assist in managing business operations and enhance the relationship between the business, customer, and suppliers.

You will get hands on experience with integrated business processes with the world’s largest enterprise resource planning (ERP) systems, SAP ERP in a virtual lab environment. Real-world exposure to SAP increases the student’s ability to integrate knowledge across business disciplines and build a firmer grasp of integrated business processes. You will be able to apply the real-world concepts presented in this course immediately upon entering the workforce and will be better prepared to succeed in your career.
Course Outcomes:
Upon completion of this course, learners should be able to:

- Discuss the ethical implications of utilizing and managing technology in a business organization.
- Describe the use of enterprise systems in an organization and how these systems are designed and implemented to meet specific business objectives.
- Effectively use SAP ERP to execute key steps and extract meaningful information in the procurement and sales processes.
- Evaluate the use of social media tools and applications in a business environment to further the goals of an organization.
- Identify the key components of an information technology system and how those components are integrated to meet the specific needs of an organization.
- Recommend an information security plan to assist an organization in protecting business data and information.
- Explain the impact that ‘Big Data’ has on an organization and the methods that an organization can develop to manage ‘Big Data.’

Course Materials:

Required Texts:


Required Resources:

Library Tutorials:

Computer and Information Science Research Tutorial, see https://mediaspaces.regis.edu/media/Regis+Library/+Resources+for+computer+and+information+science+/0_blk905nh/10579702
Technology Tools:
- Lucidchart (www.lucidchart.com) - BPMN Diagram
- SAPGUI (installation/access instructions in Week 1)
- SAP Lumira (cloud version available via web browser)
- Adobe Acrobat Reader
- RealPlayer (to watch the video presentations)

Technical Specifications:

Optional Materials:
- Purdue Online Writing Lab (OWL). Retrieved from https://owl.english.purdue.edu/owl/section/2/10/.

Pre-Assignment:
- **Online Format**: Sign on to WorldClass (Home Page) and become familiar with the course navigation of the Web Curriculum. Read Chapters 1 & 2 of the textbook.
- **Classroom-based Format**: Read Chapters 1 & 2 of the textbook.

Pre-Assignment Due Dates:
- **Classroom-based Format**: This assignment is due the first night of class.
- **Online Format**: The instructor will specify the due date for this assignment.

Course Assignments and Activities:

<table>
<thead>
<tr>
<th></th>
<th>Topics</th>
<th>Readings</th>
<th>Activities Assignments and Associated Points</th>
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</thead>
</table>
| 1 | The Contributions of Information Technology | McKinney (2019) Chapters 1 & 2 From the Expert | Class Introductions/Discussions
|   |                               |                                    | Case Study 1 – Tesla: Driving Competitive Strategy, pg. 21 of textbook               |
|   |                               |                                    | Written Assignment 1: Mobile Operating Systems                                       |
|   |                               |                                    | Case Study: Business Process Model and Notation (BPMN)                              |
| 4 | Supporting the Procurement Process with SAP | McKinney (2019) Chapter 8 and Appendix 8 From the Expert | Class Discussions
|   |                               |                                    | SAP Exercise - Appendix 8 - SAP Procurement Tutorial                                  |
## Supporting the Sales Process with SAP

McKinney (2019) Chapters 9 and Appendix 9
From the Expert
Class Discussions
SAP Exercise - Appendix 9 - SAP Sales Tutorial

## Social Media and IS

McKinney (2019) Chapter 11
From the Expert
Class Discussions
Written Assignment 2: Social Media in a Business Environment

## Business Intelligence (BI)

McKinney (2019) Chapter 12 and Appendix 12
From the Expert
Class Discussions
SAP Exercise: SAP Business Intelligence Tutorial

## Systems Development, Security and Process Management

McKinney (2019) Chapter 5 and Extension 3
From the Expert
Class Discussions
Final Exam

### Student Evaluation Grid:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Value (percent of overall course grade)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussions/Participation</td>
<td>20%</td>
</tr>
<tr>
<td>Case Study - Week 1</td>
<td>5%</td>
</tr>
<tr>
<td>Case Study - Week 3</td>
<td>5%</td>
</tr>
<tr>
<td>SAP Exercises (3 @ 10% each)</td>
<td>30%</td>
</tr>
<tr>
<td>Written Assignments (2 @ 10% each)</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

### Participation

Class participation/effort is important because we can all learn from each other. Your participation points can make a difference in the final grade. Participation means:

1. Present in class every session (classroom)
2. Present in the forum every week (online)
3. Effectively responds to questions from the facilitator (classroom)
4. Regularly checks forum and posts all required items by the deadlines (online)
5. Interacts/replies to other students in classroom/forum discussions.
Regis University and CC&IS Policies

Review the CC&IS Policies on the Regis University website.

Please specifically note these items:

- Attendance policy
- Late Work policy
- Grading Scale

1. Academic Support Resources Statement
2. Disability Accommodations Statement
3. Academic Integrity Statement

Other Information

Note to Learners: On occasion, the course instructor may, at his or her discretion, alter the Learning Activities shown in this Syllabus. The alteration of Learning Activities may not, in any way, change the Learner Outcomes or the grading scale for this course as contained in this syllabus. Examples of circumstances that could justify alterations in Learning Activities could include number of learners in the course; compelling current events; special instructor experience or expertise; or unanticipated disruptions to class session schedule.