

## **Syllabus**

**Course Number: CIS 300**

**Course Title: 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:*

McKinney, E., and Kroenke, D. (2015), *Processes, Systems, and Information: An Introduction to MIS*, 2<sup>nd</sup> Edition, United States: Pearson.

Softcover textbook: ISBN-13: 978-0-13-354675-0

Loose Leaf Version: ISBN-13: 978-0-13-354690-3

eTextbook: ISBN-13: 978-0-13-354691-0

### *Required Resources:*

American Psychological Association (current edition). APA Publication Manual. Retrieved from <http://www.apastyle.org/>.

### *Library Tutorials:*

Research Tutorials (n.d.). Regis University Library: see <http://libguides.regis.edu/tutorials>.

Computer and Information Science Research Tutorial,  
see <https://mediaspace.regis.edu/media/Regis+Library+-+Resources+for+computer+and+information+science+/0 blk905nh/10579702>

### **Technology Tools:**

Lucidchart ([www.lucidchart.com](http://www.lucidchart.com)) - BPMN Diagram

Adobe Acrobat Reader

RealPlayer (to watch the video presentations)

### **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 D2L (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 facilitator will specify the due date for this assignment.

### **Course Assignments and Activities:**

	<b>Topics</b>	<b>Readings</b>	<b>Activities Assignments and Associated Points</b>
<b>1</b>	The Contributions of Information Technology	McKinney (2015) Chapters 1 & 2, Ethics Guide  From the Expert	Class Introductions/Discussions  Group Assignment: Competitive Strategy, pg. 17 of textbook
<b>2</b>	Systems Design and Data Foundations	McKinney (2015) Chapters 3 & 4  From the Expert	Class Discussions  Written Assignment 1: Mobile Operating Systems
<b>3</b>	Operational Processes and ERP Systems	McKinney (2015) Chapters 5 & 6  From the Expert	Class Discussions  Case Study: Business Process Model and Notation (BPMN)
<b>4</b>	Supporting the Procurement Process with SAP	McKinney (2015) Chapter 7 and Appendix 7  From the Expert	Class Discussions  SAP Exercise - Appendix 7 - SAP Procurement Tutorial
<b>5</b>	Supporting the Sales Process with SAP	McKinney (2015) Chapters 8, 9 and Appendix 8  From the Expert	Class Discussions  SAP Exercise - Appendix 8 - SAP Sales Tutorial

6	Social Media and IS	McKinney (2015) Chapter 10  From the Expert	Class Discussions  Written Assignment 2: Social Media in a Business Environment
7	Business Intelligence (BI)	McKinney (2015) Chapter 11 and Appendix 11  From the Expert	Class Discussions  SAP Exercise: SAP Business Intelligence Tutorial
8	Systems Development, Security and Process Management	McKinney (2015) Chapter 12	Class Discussions  Final Exam

### Student Evaluation Grid:

Assignment	Value (percent of overall course grade)
Discussions/Participation	20%
Group Activity - Week 1	5%
Case Study - Week 3	5%
SAP Exercises (3 @ 10% each)	30%
Written Assignments(2 @ 10% each)	20%
Final Exam	20%

### CC&IS Grading Scale:

Letter Grade	Percentage	Grade Point
A	93 to 100	4.00
A-	90 to less than 93	3.67
B+	87 to less than 90	3.33
B	83 to less than 87	3.00
B-	80 to less than 83	2.67
C+	77 to less than 80	2.33
C	73 to less than 77	2.00
C-	70 to less than 73	1.67
D+	67 to less than 70	1.33
D	63 to less than 67	1.00
D-	60 to less than 63	.67
F	Less than 60	0

Additional information about grading can be found in the latest edition of the University Catalog, available at <http://www.regis.edu/Academics/Course%20Catalog.aspx>.

## **CC&IS Policies and Procedures**

Each of the following CC&IS Policies & Procedures is incorporated here by reference. Students are expected to review this information each term, and agree to the policies and procedures as identified here and specified in the latest edition of the University Catalog, available at <http://www.regis.edu/Academics/Course%20Catalog.aspx> or at the link provided.

- The CC&IS Academic Integrity Policy.
- The Student Honor Code and Student Standards of Conduct.
- Incomplete Grade Policy, Pass / No Pass Grades, Grade Reports.
- The Information Privacy policy and FERPA. For more information regarding FERPA, visit the [U.S. Department of Education](#).
- The HIPAA policies for protected health information. The complete Regis University HIPAA Privacy & Security policy can be found here: <http://www.regis.edu/About-Regis-University/University-Offices-and-Services/Auxiliary-Business/HIPAA.aspx>.
- The Human Subjects Institutional Review Board (IRB) procedures. More information about the IRB and its processes can be found here: <http://regis.edu/Academics/Academic-Grants/Proposals/Regis-Information/IRB.aspx>.

The CC&IS Policies & Procedures Syllabus Addendum summarizes additional important policies including, Diversity, Equal Access, Disability Services, and Attendance & Participation that apply to every course offered by the College of Computer & Information Sciences at Regis University. A copy of the CC&IS Policies & Procedures Syllabus Addendum can be found here: <https://in2.regis.edu/sites/ccis/policies/Repository/CCIS%20Syllabus%20Addendum.docx>.