

**Syllabus**

**Course Number: CIS 455**

**Course Title: Management Information Systems**

**Course Description:**

Explores organizational and technical theories of management information systems with emphasis on the healthcare industry. Examines management information systems technology and its components. Introduces data analytics and how it can be used within the healthcare area.

**Prerequisite Courses:**

None

**Course Overview:**

The CIS 455-Management Information Systems course is designed to provide you with an overview of current technologies utilized in organizations in order to gain a competitive and strategic advantage in the marketplace. The course will cover current trends in technology and business in an effort to explore how Information Technology (IT) and business entities can work together to design, develop, and implement the technologies that are best suited for an organization based on the goals and mission of the organization. It is no longer practical for an organization to try and keep pace with the latest technologies from a technical, cost and business perspective. However, it is reasonable to develop a technology plan that is designed to support the organization and be flexible enough to guide the organization towards future growth and business objectives. In many ways, the course content is aimed at Enterprise level organizations, but many of the concepts are practical for nearly any size or type of organization. Technology has always been growing at an accelerated rate and it remains difficult for both consumers and organizations to keep pace. The question becomes, what is the most cost effective and useful set of tools, applications and processes available for an organization based on revenue requirements, market strategy, and strategic initiatives. Take time during our class to examine the technologies that you use in your own career and determine whether those technologies are aligned with specific and measurable business goals within your own organization.

**Course Outcomes:**

Upon the completion of this course, learners should be able to:

1. Describe the information age and the differences between data, information, business intelligence, and knowledge.
2. Explain the importance of decision making in business, and how business uses MIS to make decisions and gain competitive advantages.
3. Describe e-business and its related advantages and challenges for business.

4. Explain and identify ethical issues associated with MIS and identify and describe policies business should implement for protection against MIS-based threats.
5. Explain MIS infrastructure and describe the characteristics of MIS infrastructure.
6. Explain the value of information to business and describe the MIS tools available to business to best leverage this information.
7. Identify and explain the advantages and challenges presented to business in the use of MIS tools to create a connected and mobile business environment.
8. Analyze the importance of business communications and discuss the role communications play in connecting companies to their business partners.
9. Identify and describe the business benefits associated with Information Technology project management and systems development.

### **Course Materials:**

#### ***Required Texts:***

Piccoli, G. & Pigni, F. (2016). Information Systems for Managers (3<sup>rd</sup> Edition). Prospect Press. Burlington, Vermont. ISBN: 978-1-943153-04-6

\*For the CIS 455 course you will be accessing an online eText for your required readings. You can access the eText by selecting the following URL. You will purchase the eText directly from this site, <https://redshelf.com/book/574938>

#### ***Required Resources:***

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

#### ***Technology Tools:***

Each student should have access to the Microsoft Suite that includes MS Word, MS Excel and MS PowerPoint for the course and be familiar with using these applications.

During the course you will have access to the Regis University Virtual Lab to access and complete exercises using the Tableau application. Instructions for accessing the Virtual Lab are provided in the Course Overview.

During the course you will be accessing an outside vendor to complete a Healthcare simulation that is focused on the topic of ethics. Your instructor will provide you with an access code for the simulation during Week 1. You will access the following site and there is a cost of \$45.00 per student. You will have an opportunity to pay for the simulation when you first sign-on.

<http://www.ethicsgame.com>

#### **Pre-Assignment:**

**Online Format:** Sign on to D2L (Home Page) and become familiar with the course navigation. Read Chapter One of text.

#### **Pre-Assignment Due Dates:**

##### **Classroom-based Format:**

**Online Format:** The instructor will specify the due date for assignments.

**Course Assignments and Activities:**

Week	Topics	Readings*	Activities Assignments and Associated Points
1	Information Systems and the Role of Management	eText: Chapters 1 and 2	<p>Introductions</p> <p>Discussion Question: The Role of Information Technology</p> <p>Course Project</p>
2	Security and Ethics	eText: Chapter 13	<p>Discussion Question: The Ethics of Information Techology</p> <p>Written Assignment - Ethics</p> <p>Week 2 Quiz 1</p> <p>Ethics Game Simulation</p> <p>Course Project Approval (non-graded – feedback only)</p>
3	Information Systems Organization and Creating a Competitive Advantage	eText: Chapters 3 and 4	<p>Discussion Question: Data Management</p> <p>Course Project Outline</p> <p>Tableau Data Assignment Reflection Paper - due Week 5</p>
4	The Internet and Electronic Commerce	eText: Chapter 5	<p>Discussion Question: The impact of the Internet and Electronic Commerce</p> <p>Course Project Proposal</p> <p>Week 4 Quiz 2</p>
5	Strategic Information Planning	eText: Chapter 6	<p>Discussion Question: Planning the Strategy of Information Technology</p> <p>Written Assignment – Tableau Data Assignment Reflection Paper due</p>

6	The Value of Information Technology	eText: Chapter 7 and 8	Discussion Question: Measuring the Value of Information Technology Week 6 Quiz 3
7	Sustainability and Funding for Information Technology	eText: Chapters 9 and 10	Discussion Question: Funding Information Technology
8	Systems Development and Information Technology Trends	eText: Chapters 11 and 12	Discussion Question: Trends in Information Technology Week 8 Quiz 4 Course Project due
<b>Total</b>			<b>100%</b>

### Student Evaluation Grid:

Assignments	Percentage
Weekly Discussion ( 8 @ 100 each )	30%
Written Assignments: (2 @ 100 each) <ul style="list-style-type: none"> <li>• Ethics – Week 2</li> <li>• Tableau Data Assignment Reflection Paper – Week 5</li> </ul>	10%
Ethics Game Simulation – Week 2 (100)	10%
Quizzes (4 @ 100 each)	20%
Course Project	30%
<b>TOTAL</b>	<b>100%</b>

### 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](http://www.ed.gov).
- 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>.