Course Description: Concerned with managing the use of information systems to make organizations more competitive and efficient. Specific topics include organizational and technical foundation of information systems and building and managing systems.

Statement of Prerequisites: COSC 1200

Goal: The goal of this course is to provide a broad overview of the key issues surrounding information systems and the effective and competitive use of information technology. This course will also help the student to develop basic knowledge and skills concerning:

- the challenges offered by the development and use of information technology
- the effects of information technology on individuals, groups, organizations, and society
- specific technologies that enable individuals and organizations to make the most of the information age
- social, organizational, cultural, and individual barriers to implementing information systems
- the process of initiating, planning, analyzing, designing, testing, developing, and installing information systems

Outcomes:

- Identify the components of management information systems, the distinction of data from information, the personal and organizational dimensions of information along with the implications of information technology on workers and our lives
- Describe current development methodologies, and development options. Identify the phases and activities in the SDLC and explain the role of prototyping
- Discuss the impact of information technology on decision making along with identifying the different decision support and artificial intelligence tools and the applications of these tools
- Identify management’s role in protecting people and information along with the risk associated with information and information technology
- Describe and contrast the models for e-commerce, e-business, and e-government with regards to business strategies, marketing approaches, financial issues, and security concerns
- Define the key characteristics of relational databases. Discuss business intelligence, databases, data warehouses, data marts, and analytical tools as they apply to organizational roles and business processes
Identify and describe the social impact and business value of emerging technology trends.

Describe the legal and ethical issues in Information Management along with the global and local business implications of intellectual property, copyrights, and fair use doctrine.

Explain how a competitive advantage is built through business intelligence and the use of CRM, SCM, ECE, and ERP systems.

Discuss the differences among the various types of IT infrastructure along with the need for integrated enterprise systems. Explain the effective use of backup, recovery and a disaster recovery plan.

Demonstrate effective oral and written communication.

Use appropriate technology and information to conduct research.

Solve problems using critical thinking and creativity.

Use quantitative analytical skills to evaluate and process numerical data. Specific skill objectives include:

- Using spreadsheet applications, derive common business measures using nested and user-defined function on sets of data and analyze using appropriate analysis tool such as: pivot tables, filtering, conditional formatting, and graphs.
- Create a relational database from standard design specifications with referential integrity and data validity checking.
- Create information using multiple table queries with sorting/ordering and derived attributes.
- Create and maintain a multiple page website with navigation and multiple file components using industry accepted standards.
- Create effective presentations using animation, graphics and narration.
- Set up and effectively use an interactive communication environment.

**Methodology:**

This is a lecture based class. In addition to the classroom setting, this class utilizes three websites, the Moodle website, which contains information about weekly work, projects and the research paper; the McGraw Hill “Connect” website, which contains many of the assignments, quizzes and exams; and the Cohesion Case Database website for working with data. Students must submit completed assignments using either Connect or Moodle as directed. You must access the Connect website to complete the assignments listed in Connect. Each week is clearly identified so it should be easy to find the required assignments. You will need to create a profile for yourself in Connect using the access code from your textbook. If you purchased a used book, you can purchase the access code separately. The link for the McGraw Hill Connect website is at the top of the Moodle website.

Moodle assignments/projects must be uploaded to Moodle and NOT SENT to me via an email attachment. Please note that there is one assignment drop-box in Moodle for each separate assignment. It is clearly labeled. Assignments not uploaded to the correct drop-boxes will not be given full credit.
**Evaluation Criteria**: Grades will be assigned on a total percentage basis. All points for the class will be added and a percentage figured against total possible points within the following categories:

- 15% Homework/Case studies
- 15% Quizzes
- 20% Projects
- 25% Exams
- 15% Subjective*

*A subjective assessment by the instructor of class attendance, cooperation with others, class participation, attitude, initiative, and the demonstrated ability to get your work in on time. Employers consider such factors to be of vital importance in evaluating employee job performance. Therefore, the letter grade you earn will reflect this aspect of your work.

**Casper College General Education Outcomes**: As graduates of Casper College, students will be able to:

1. **Demonstrate effective oral and written communication**
2. Use the scientific method
3. **Solve problems using critical thinking and creativity**
4. Demonstrate knowledge of diverse cultures and historical perspectives
5. Appreciate aesthetic and creative activities
6. **Use appropriate technology and information to conduct research**
7. Describe the value of personal, civic, and social responsibilities
8. **Use quantitative analytical skills to evaluate and process numerical data**

Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.

The grading scale is as follows:

- A ..................90‐100%
- B ..................80‐89%
- C ..................70‐79%
- D ..................60‐69%
- F ..................0‐59

**Required Text, Readings, and Materials**:  
- Flash drive to store data files  
- Access to Microsoft Office Professional 2016 or Office 365 versions
Class Policies:

1. Thorough reading of assigned text and supplementary materials is expected.
2. Active participation and intellectual engagement in discussions is expected.
3. There are several projects in this class (you will be given specific instructions for each project at the appropriate time). These projects include a research paper, a narrated PowerPoint presentation, and several data analysis using Excel or Access. Please note the projects are worth 20% of your grade.
4. Assignments for each chapter will be posted in Connect but project assignments will be posted and discussed in Moodle.
5. Assignments and projects are due on specific dates. Late work will lose 10% for each day the assignment is late; unless prior arrangements were made with your instructor. Technical issues cannot be used as a valid excuse for handing in late work.
6. You will be required to complete a quiz for each chapter. When taking the quiz, please take your time and read each question carefully.
7. Major exams will be given after every three chapters of the textbook.
8. There will be a final exam at the end of the semester.

Last Date to Change to Audit Status or to Withdraw with a W Grade: April 12, 2017.
Student Rights and Responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Chain of Command: If you have any problems with this class, you should first contact the instructor in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the division chair, and lastly the vice president for academic affairs.

Academic Code Violations: (Cheating and Plagiarism) Casper College demands academic honesty. Academic code violations focus on academic dishonesty, which includes but is not limited to, cheating, plagiarism, buying, selling, or stealing exams; substituting for another person, collusion when collaboration is not approved; knowingly furnishing false information; and copyright violations. Violations of the college's academic code can result in a range of negative consequences from failing a graded assignment to expulsion from the college. See the Student Code of Conduct for more information on this topic.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

Harassment and Discrimination: Casper College seeks to provide an environment that is free of bias, discrimination and harassment. If you have been the victim of sexual harassment/gender or sex discrimination/sexual misconduct/assault, we encourage you to report this. If you report this to an employee, she or he must notify our college's Title IX Coordinator, Linda Toohey, Associate Vice President for Student Services, 125 College Drive, GW 412, Casper, WY 82601; (307) 268-2667; linda.toohey@caspercollege.edu about the basic facts of the incident. Employee concerns should be directed to the Human Resources Director. For more information about your options, please go to: caspercollege.edu/nondiscrimination
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<th>Week</th>
<th>Topic</th>
<th>Assignments/Projects</th>
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<td>1</td>
<td>Welcome and introductions/class overview</td>
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<td>2</td>
<td>Chap 1: Management Inf Systems</td>
<td>Assignment and Quiz in Connect</td>
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<td>3</td>
<td>Chap 2: Decisions and Processes</td>
<td>Project-Mobile Device Project</td>
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<td>Annotated Bibliography Overview</td>
<td>AYK 4 in Moodle Quiz in Connect</td>
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<td>5</td>
<td>Chap 3: EBusiness</td>
<td>Assignment and Quiz in Connect Complete research for bibliography</td>
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<td><strong>Exam 1</strong></td>
<td>Intro to ethics and technology Begin PPT presentation</td>
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<td>7</td>
<td>Chap 4: Ethics and Info Security</td>
<td>Assignment and Quiz in Connect Work on research project</td>
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<td>Project: Presentations</td>
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<td>Chap 5: Infrastructures</td>
<td>Assignment and Quiz in Connect Project: AYK 13 in Moodle</td>
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<td>Cohesion Case – Competitive Advantage</td>
<td>Complete Cohesion Case Project: AYK 14</td>
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<td>Chap 6: Business Intelligence</td>
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<td><strong>Exam 2</strong></td>
<td>Cohesion Case: Business Intelligence Access Project</td>
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<td>Chap 8: Enterprise Applications</td>
<td>Assignment and Quiz in Connect Submit Access Project</td>
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<td>Chap 9: Systems Development and Project Management</td>
<td>Assignment and Quiz in Connect</td>
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<td><strong>Exam 3</strong></td>
<td>Project: AKY 9</td>
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<td><strong>Finals Week</strong></td>
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*I instructor reserves the right to change any aspect of the course.*