



INFO I303 Organizational Informatics

Course Syllabus

Instructor:	Fawzi BenMessaoud	Phone Contact:	317-525-2214	Credit Hours:	3 Hours
E-mail Address:	Fawzbenm@iupui.edu	Office Hours:	By appointment	Contact Hours:	45 Clock Hours
Pre-requisites & Co-requisites:	None	Delivery Mode	On Line - Canvas	Instruction Mode	Lecture

Course Description:

Examines the various needs, uses, and consequences of information in organizational contexts. Topics include organizational types and characteristics, functional areas and business processes, information-based products and services, the use of and redefining role of information technology, the changing character of work life and organizational practices, sociotechnical structures, and the rise and transformation of information-based industries. Credit given for either INFO I303 or SPEA V369.

Instructional Topics:

- Organizational Informatics concepts and models
- Information and Communication Technologies
- Organizational Informatics System Design
- Communication Technologies and Applications
- Ethical and legal issues in Organizational Informatics

Learning Objectives:

- CLO1_ Interpret the field of organizational informatics and construct and evaluate research questions that fall within the framework of this definition (e.g., questions related to the design and effective implementation of IT within organizations, maintenance, use, organizational value, conditions that foster success or failure; the effects of IT on company's employees and customers).
- CLO2_ Distinguish among the many types of information systems (and the many jobs associated with them) that are found in modern organizations.
- CLO3_ Discuss the complex social and legal milieu in which modern IT organizations function.

- CLO4_Categorize social and organizational factors that can affect the implementation and use of Information and Communication Technologies (ICTs).
 - CLO5_Compare and contrast the ways in which the organizational leadership tend to view the value of information technology and ICT.
 - CLO6_Describe specific ways to quantify ICTs value, and identify the basic types of organizational structures/functions and the impact that ICTs have on power relationships within those structures.
 - CLO7_Appraise current research on approaches to designing ICTs for the workplace and be able to draw distinctions between usability and usefulness in ICTs.
 - CLO8_Analyze the various factors and dynamics affecting the adoption of innovative information technology in organizational settings.
 - CLO9_Discuss different theoretical models for managing technology-driven change in organizations.
 - CLO10_Assess the potential risks/costs/consequences inherent in failing to deploy an IT project successfully within organizations.
 - CLO11_Formulate a course project focusing on a selected topic in Information Systems and Informatics to apply selected approaches and better understand various dimensions, implications and perspectives on the subject of Information Systems and Informatics.
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Course Outcomes:

The curriculum of the School of Informatics is designed along two axes. One is the technical dimension, running from the logical and mathematical foundations of information technology to issues of distributed information and knowledge systems. The other axis represents the human dimension, from the individual working with a computer and the area of human computer interaction to groups interacting via computer with each other and the areas of social and organizational informatics.

This course belongs to the second axis and will focus on information within organizational structures. Its theoretical and philosophical perspectives will be part of a university education which goes beyond a trade school approach to help students critically evaluate new trends in their chosen field and become professionals who can adapt successfully to this field's rapid rate of change.

I303 will acquaint students with the many different types of information systems present in modern for-profit and not-for-profit organizations. It will help prepare students to become informaticists who can function effectively and efficiently inside corporate and organizational cultures. In addition, I303 will examine behavior and techniques that foster successful information governance, as well as those factors that typically lead to the failure of large-scale IT projects.

Course Learning Outcome (CLO)	Program Learning Outcome (PLO)	RBT*	Level**	PLUS‡	Assessment
CLO1_ Interpret the field of organizational informatics and construct and evaluate research questions that fall within the framework of this definition (e.g., questions related to the design and effective implementation of IT within organizations, maintenance, use, organizational value, conditions that foster success or failure; the effects of IT on company's employees and customers).	B4_Develop insights from data and apply them to address problems and explore opportunities. C4_Communicate insights derived from data.	RBT 5	R	P3.1 Innovator – Investigates P3.4 Innovator – Makes decisions* P1.4 Communicator – Conveys ideas effectively	<ul style="list-style-type: none"> • Discussion Questions • Exams • Research & Case Analysis-III
CLO2_Distinguish among the many types of information systems (and the many jobs associated with them) that are found in modern organizations.	A1_ Explain the fundamentals of computer hardware and software.	RBT 4	R	P1.4 Communicator – Conveys ideas effectively	<ul style="list-style-type: none"> • Discussion Questions • Exams
CLO3_Discuss the complex social and legal milieu in which modern IT organizations function.	E4_Articulate the business considerations of technical knowledge.	RBT 6	M	P1.4 Communicator – Conveys ideas effectively	<ul style="list-style-type: none"> • Discussion Questions • Exams • Final Course Project Part-I
CLO4_Categorize social and organizational factors that can affect the implementation and use of Information and Communication Technologies (ICTs).	E2_ Interpret major societal trends affecting the development and deployment of technology, such as access, privacy, intellectual property, security, and equity. R	RBT 4	R	P4.3 Community Contributor – Behave ethically P4.4 Community Contributor – Anticipates consequences*	<ul style="list-style-type: none"> • Discussion Questions • Research & Case Analysis-I
CLO5_Compare and contrast the ways in which the organizational leadership tend to view the value of information technology and ICT.	F2_Support the ethical and appropriate design and use of technology.	RBT 4	M	P4.3 Community Contributor – Behave ethically P4.4 Community Contributor – Anticipates consequences*	<ul style="list-style-type: none"> • Discussion Questions • Exams • Research & Case Analysis-II
CLO6_Describe specific ways to quantify ICTs value, and identify the basic types of organizational structures/functions and the impact that ICTs have on power relationships within those structures	E4_Articulate the business considerations of technical knowledge.	RBT 3	M	P1.4 Communicator – Conveys ideas effectively	<ul style="list-style-type: none"> • Discussion Questions • Exams • Final Course Project Part-I
CLO7_Appraise current research on approaches to designing ICTs for the workplace and be able to draw distinctions between usability and usefulness in ICTs.	D3_Define terms and explain principles essential to the design of IT and computing systems.	RBT 5	R	P1.4 Communicator – Conveys ideas effectively	<ul style="list-style-type: none"> • Discussion Questions • Exams
CLO8_Analyze the various factors and dynamics affecting the adoption of innovative information technology in organizational settings.	E4_Articulate the business considerations of technical knowledge.	RBT 4	M	P1.4 Communicator – Conveys ideas effectively	<ul style="list-style-type: none"> • Discussion Questions • Exams • Final Course Project Part I

CLO9_Discuss different theoretical models for managing technology-driven change in organizations.	F2_Support the ethical and appropriate design and use of technology.	RBT 6	M	P4.3 Community Contributor – Behave ethically P4.4 Community Contributor – Anticipates consequences*	<ul style="list-style-type: none"> • Discussion Questions • Exams • Research & Case Analysis-II
CLO10_Assess the potential risks/costs/consequences inherent in failing to deploy an IT project successfully within organizations.	F4_Demonstrate networking skills for personal and professional improvement.	RBT 5	R	P4.1 Community Contributor – Builds community	<ul style="list-style-type: none"> • Discussion Questions • Exams
CLO11_Formulate a course project focusing on a selected topic in Information Systems and Informatics to apply selected approaches and better understand various dimensions, implications and perspectives on the subject of Information Systems and Informatics.	E4_Articulate the business considerations of technical knowledge.	RBT 6	M	P1.4 Communicator – Conveys ideas effectively	<ul style="list-style-type: none"> • Discussion Questions • Final Course Project Part I & II

* Revised Bloom's taxonomy (RBT): 1. Remembering; 2. Understanding; 3. Applying; 4. Analyzing; 5. Evaluating; 6. Creating.

** Indicators of level of knowledge (Level): I – Introduce; R – Reinforce; M – Master

† IUPUI Profiles of Learning for Undergraduate Success (PLUS)

This course is designed to demonstrate IUPUI's [Profiles of Learning for Undergraduate Success](#) (PLUS) aligned with the Instructional Learning Objectives, Assessment, and Outcomes.

Course Resources:

Required Text:

Ralph M. Stair and George W. Reynolds (2016). Principles of Information Systems, 12th Edition, Cengage Learning.

Student Edition ISBN(s): ISBN-10: 1-285-86716-5, or ISBN-13: 978-1-285-86716-8

Other Resources:

Note: this text is available in e-book format at approximately one half the price:

<http://www.cengagebrain.com/shop/search/9781285867168>

Statement of Values:

IUPUI values the commitment of students to learning; of faculty to the highest standards of teaching, scholarship, and service; and of staff to the highest standards of service. IUPUI recognizes students as partners in learning. IUPUI values the opportunities afforded by its location in Indiana's capital city and is committed to serving the needs of its community. Thus, IUPUI students, faculty, and staff are involved in the community; both to provide educational programs and patient care and to apply learning to community needs through service. As a leader in fostering collaborative relationships, IUPUI values collegiality, cooperation, creativity, innovation, and entrepreneurship as well as honesty, integrity, and support for open inquiry and dissemination of findings. IUPUI is committed to the personal and professional development of its students, faculty, and staff and to continuous improvement of its programs and services.

Course Evaluation And Grading:

Students will be evaluated on knowledge of textbook content, writing and presentation skills, analysis and application of thinking skills.

Grade Categories	Weight
Discussion Assignments	20%
Research and Case Analysis	25%
Mile Marker: Final Course Project (FCP) Part-I & Part-II	35%
Non-cumulative Exams	20%
Total:	100%

Grading Scale		
Letter Grade	Minimum Percentile	Interpretation
A+	>=101	Professional level work, showing highest level of achievement
A	94% to 100%	Extraordinarily high achievement, quality of work; shows command of the subject matter
A-	90% to 93%	Excellent and thorough knowledge of the subject matter
B+	87% to 89%	Above average understanding of material and quality of work
B	83% to 86%	Mastery and fulfillment of all course requirements; good, acceptable work
B-	80% to 82%	Satisfactory quality of work
C+	77% to 79%	Minimally acceptable performance and quality of work
C	73% to 76%	Minimally acceptable work; does not demonstrate mastery
C-	70% to 72%	Minimally acceptable work; minimum course grade allowable
D+	67% to 69%	Poor work
D	63% to 66%	Very poor work
D-	60% to 62%	Unacceptable work
F	< 60%	Failure

Please note: All assignments submitted past the assigned due dates, will result in a 10% deduction within two weeks and 25% deduction for over two weeks. Discussion Questions must be submitted by midnight Friday for each week, and the second responses to peers are due each Sunday by midnight. Failure to meet the Sunday deadline will result in deduction of points.

Expectations/Guidelines/Policies:

Online Participation/Attendance – Discussion Board

Students must send an introductory email to the instructor by the first Thursday of the start of the class.

The introduction should include information about your background, interest in the Information Systems and Informatics profession and career goals. The introduction can also include personal information regarding the state the student resides in, children, pets, hobbies, etc.

Collaborative Learning

Since this is an online course, students must confirm their participation/attendance on the Discussion Board. Utilizing the Discussion Board will allow the instructor to monitor the student's participation/attendance. One of the best ways to learn new materials is to collaborate in groups. You are encouraged to discuss class materials and homework assignments with your classmates to help each other. However, the homework you hand in must be your own work, in your own words, and your own explanation.

Course Communications

Communication for this course will be administered through IUPUI email. Please email me at fawzbenm@iupui.edu, make sure to add the course title in your subject line. Other students from different courses will be contacting me via this medium so a properly formatted subject line will aid our communication. All announcements, assignments, grades, tests, quizzes etc. will take place in Canvas.

Deadlines

To ensure the student's success in this course you must read all assigned readings to include book chapters and online articles. The power point slides contain lecture notes that are intended to add more in-depth understanding of chapter content. In the power point slides there are hyperlinks to provide a more information regarding the subject matter. Students are encouraged to use the hyperlinks as additional reading/research sources. All class projects must be submitted according to their related due dates. It is important that students adhere to the class project due dates. Any project submitted late will result in a 5 point deduction each day it is late. Plagiarism will not be tolerated. When submitting written work, resources must be cited to give credit to the resource.

Please be aware there are deadlines for completion of the required projects, assignments, and exams. The student may proceed through the course faster than the prescribed calendar but you CANNOT fall behind. Students who proceed through the course at an accelerated rate must wait until the next unit/exam is open to proceed. No unit will be opened until the date posted.

Testing

Exams may be taken at any time during their availability. Only **one attempt** to take each exam is allowed. **It is not permitted to start the exam, log off your computer, and then come back at another time to complete the exam. The exam MUST be completed at one sitting.** Note the dates of the exam's availability. The exam grade will be available immediately after submitting the exam. There is no retaking of exams once graded. After the deadline, exams will not be available. The student will need to make special arrangements with the instructor to take the exam after the posted deadline. There will be a ten (10) point reduction from the percentage scored on the exam if taken after the deadline. After one week the exam **WILL NOT** be available.

Incomplete:

The instructor may assign an Incomplete (I) grade only if at least 75% of the required coursework has been completed at passing quality and holding you to previously established time limits would result in unjust hardship to you. All unfinished work must be completed by the date set by the instructor. Left unchanged, an Incomplete automatically becomes an F after one year.

<http://registrar.iupui.edu/incomp.html>

Code of Conduct

All students should aspire to the highest standards of academic integrity. Using another student's work on an assignment, cheating on a test, not quoting or citing references correctly, or any other form of dishonesty or plagiarism shall result in a grade of zero on the item and possibly an F in the course. Incidences of academic misconduct shall be referred to the Department Chair and repeated violations shall result in dismissal from the program.

All students are responsible for reading, understanding, and applying the *Code of Student Rights, Responsibilities and Conduct* and in particular the section on academic misconduct. Refer to *The Code > Responsibilities > Academic Misconduct* at <http://www.indiana.edu/~code/>. All students must also successfully complete the Indiana University Department of Education "How to Recognize Plagiarism" Tutorial and Test.

<https://www.indiana.edu/~istd> You must document the difference between your writing and that of others. Use quotation marks in addition to a citation, page number, and reference whenever writing someone else's words (e.g., following the *Publication Manual of the American Psychological Association*). To detect plagiarism instructors apply a range of methods, including Turnitin.com. <http://www.ulib.iupui.edu/libinfo/turnitin>

Academic Misconduct:

1. **Cheating:** ^[1]_{SEP} Cheating is considered to be an attempt to use or provide unauthorized assistance, materials, information, or study aids in any form and in any academic exercise or environment.
 - a. A student must not use external assistance on any "in-class" or "take-home" examination, unless the instructor specifically has authorized external assistance. This prohibition includes, but is not limited to, the use of tutors, books, notes, calculators, computers, and wireless communication devices.
 - b. A student must not use another person as a substitute in the taking of an examination or quiz, nor allow other persons to conduct research or to prepare work, without advanced authorization from the instructor to whom the work is being submitted.
 - c. A student must not use materials from a commercial term paper company, files of papers prepared by other persons, or submit documents found on the Internet.
 - d. A student must not collaborate with other persons on a particular project and submit a copy of a written report that is represented explicitly or implicitly as the student's individual work.
 - e. A student must not use any unauthorized assistance in a laboratory, at a computer terminal, or on fieldwork.
 - f. A student must not steal examinations or other course materials, including but not limited to, physical copies and photographic or electronic images.
 - g. A student must not submit substantial portions of the same academic work for credit or honors more than once without permission of the instructor or program to whom the work is being submitted.

- h. A student must not, without authorization, alter a grade or score in any way, nor alter answers on a returned exam or assignment for credit.
2. **Fabrication:** A student must not falsify or invent any information or data in an academic exercise including, but not limited to, records or reports, laboratory results, and citation to the sources of information.
3. **Plagiarism:** Plagiarism is defined as presenting someone else's work, including the work of other students, as one's own. Any ideas or materials taken from another source for either written or oral use must be fully acknowledged, unless the information is common knowledge. What is considered "common knowledge" may differ from course to course.
- a. A student must not adopt or reproduce ideas, opinions, theories, formulas, graphics, or pictures of another person without acknowledgment.
- b. A student must give credit to the originality of others and acknowledge indebtedness whenever:^[SEP]
1. Directly quoting another person's actual words, whether oral or written;
 2. Using another person's ideas, opinions, or theories;
 3. Paraphrasing the words, ideas, opinions, or theories of others, whether oral or written;
 4. Borrowing facts, statistics, or illustrative material; or
 5. Offering materials assembled or collected by others in the form of projects or collections without acknowledgment
4. **Interference:** A student must not steal, change, destroy, or impede another student's work, nor should the student unjustly attempt, through a bribe, a promise of favors or threats, to affect any student's grade or the evaluation of academic performance. Impeding another student's work includes, but is not limited to, the theft, defacement, or mutilation of resources so as to deprive others of the information they contain.
5. **Violation of Course Rules:** A student must not violate course rules established by a department, the course syllabus, verbal or written instructions, or the course materials that are rationally related to the content of the course or to the enhancement of the learning process in the course.
6. **Facilitating Academic Dishonesty:**^[SEP] A student must not intentionally or knowingly help or attempt to help another student to commit an act of academic misconduct, nor allow another student to use his or her work or resources to commit an act of misconduct.

Other Policies

1. **IUPUI course policies:** A number of campus policies governing IUPUI courses may be found at the following link: http://registrar.iupui.edu/course_policies.html
2. **Classroom civility:** To maintain an effective and inclusive learning environment, it is important to be an attentive and respectful participant in lectures, discussions, group work, and other classroom exercises. IUPUI nurtures and promotes "a campus climate that seeks, values, and cultivates diversity in all of its forms and that provides conditions necessary for all campus community members to feel welcomed, supported, included, and valued" (IUPUI Strategic Initiative 9). IUPUI prohibits "discrimination against anyone for reasons of race, color, religion, national origin, sex, sexual orientation, marital status, age, disability, or [veteran] status" (Office of Equal Opportunity). Profanity or derogatory comments about the instructor, fellow students, invited speakers or other classroom visitors, or any members of the campus community shall not be tolerated. A violation of this rule shall result in a warning and, if the offense continues, possible disciplinary action.
3. **Right to revise:** The instructor reserves the right to make changes to this syllabus as necessary and, in such an event, will notify students of the changes immediately.
4. **Disabilities Policy:** In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in this course are entitled to reasonable accommodations. Please notify the instructor during the first week of class of accommodations needed for the course. Students requiring accommodations because of a disability must register with Adaptive Educational Services (AES) and complete the appropriate AES-issued before receiving accommodations. The AES office is located at UC 100, Taylor Hall (Email: aes@iupui.edu, Tel. 317 274-3241). Visit <http://aes.iupui.edu> for more information.
5. **Administrative Withdrawal:** A basic requirement of this course is that students participate in all class discussions and conscientiously complete all required course activities and/or assignments. If a student is unable to attend, participate in, or complete an assignment on time, it is the student's responsibility to inform

the instructor. If a student misses more than half of the required activities within the first 25% of the course without contacting the instructor, the student may be administratively withdrawn from this course. Administrative withdrawal may have academic, financial, and financial aid implications. Administrative withdrawal will take place after the full refund period, and a student who has been administratively withdrawn from a course is ineligible for a tuition refund. Contact the instructor with questions concerning administrative withdrawal.

All students are responsible for reading the Code of Student Rights, Responsibilities and Conduct of IUPUI at <http://www.iupui.edu/code/>, in particular the:

- Policy on Academic Dishonesty /Integrity
- Policy regarding late work and make-up exams
- Innovative class procedures and structures, such as cooperative learning exercises, panel ^{[[SEP]]}presentations, case study materials, class journals.
- All students are responsible for reading the Code of Student Rights, Responsibilities and ^{[[SEP]]}Conduct of IUPUI.
- Policy on Plagiarism
- Policy regarding children attending

Mission Statement

The Mission of IUPUI is to provide for its constituents excellence in

- Teaching and Learning;
- Research, Scholarship, and Creative Activity; and
- Civic Engagement.

With each of these core activities characterized by

- Collaboration within and across disciplines and with the community;
- A commitment to ensuring diversity; and
- Pursuit of best practices.

IUPUI's mission is derived from and aligned with the principal components—Communities of Learning, Responsibilities of Excellence, Accountability and Best Practices—of Indiana University's Strategic Directions Charter.

Hardware and software needed: You will need a reliable laptop with an Internet connection. You will use Canvas CL and Microsoft Office software; you may also wish to create graphics with a graphics package.

You will need some kind of storage medium to back up any files you produce for the class. Remember to back up your files frequently. If you lose your only copy of a file, I will sympathize with you, but you will still be responsible for assignments.

Student Responsibilities

Assignments: ^{[[SEP]]}All assignments are posted under the Assignment Tab in Canvas CL; your assignment files should be sent back to me using that Tab's functionality. Even if you are submitting a late assignment, you can upload it under the Assignments tab. As a last resort, and only if you are having trouble with the Assignments tab, you may send me an assignment through Canvas e- mail.

Discussion Assignments and Posts: There are discussion questions, which require the student to respond to the discussion question by Friday at midnight, and the second responses to peers are due each Sunday by midnight. I will post two Discussion Questions (DQ) on readings and course objectives each week. The purpose of the discussion board is to allow students to engage in active conversation regarding theory and experiences. There is no limit to the number of times the student must respond to a question but there must be a **minimum of two responses** to each discussion posting by other learners.

Exams: There will be six non-cumulative exams during the course of the semester. The exams will consist of multiple choice, true/false, fill in the blank and short answer/essay. Questions may be drawn from your book, from speakers, from class activities and additional readings as assigned. Because these are online exams, they will be "open book" and you will have access to all your materials. However, you will have a limited time window in which to take an exam and the ability to submit it one time, so it is best to be very familiar with the material if you want to quickly find/check an answer.

Case Analysis-1: Management Information Support.

Case Analysis 2: Virtual Group/Executive Briefing.

Case Analysis 3: Data Transformation & Getting Results from Data.

Final Course Project (3 Parts) – For details and instructions see posted document “INFO I303 Final Course Project”. Each part will be assigned and instructions posted in the Assignment Tab in Canvas CL according to the course schedule.

Changes

Any changes in the Course Syllabus or Schedule will be posted on the Announcement page of Canvas. Any emergent notifications will be addressed via email. Students are encouraged to communicate with the instructor as needed throughout this course.

I303 Organizational Informatics - Course Outline:

Week #	Learning Topics & Objectives	Learning Activities	Assessments & Deliverables
Week 1 (Lesson 1)	<p>Introduction to Information Systems</p> <ul style="list-style-type: none"> • Discuss why it is important to study and understand information systems. • Distinguish data from information and describe the characteristics used to evaluate the quality of data. • Name the components of an information system and describe several system characteristics. • List the components of a computer-based information system. • Identify the basic types of business information systems and discuss who uses them, how they are used, and what kinds of benefits they deliver. • Identify the major steps of the systems development process and state the goal of each. • Describe some of the threats that information systems and the Internet can pose to security and privacy. • Discuss the expanding role and benefits of information systems in business and industry. 	<p>Reading Assignments – Chapter 1</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <input type="checkbox"/> Review course syllabus <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 1 Discussion Questions <input type="checkbox"/> Complete and submit your Personal Course Introduction 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ1 & DQ2 <input type="checkbox"/> Due: Post your Introduction
Week 2 (Lesson 2)	<p>Information Systems in Organizations</p> <ul style="list-style-type: none"> • Identify the value-added processes in the supply chain and describe the role of information systems within them. • Provide a clear definition of the terms “organizational structure,” “culture,” and “change” and discuss how they affect the type of information systems that the organization implements. • Define the term “competitive advantage” and identify the factors that lead firms to seek competitive advantage. • Discuss strategic planning for competitive advantage. • Describe how the performance of an information system can be measured. • Define the types of roles, functions, and careers available in the field of information systems. 	<p>Reading Assignments – Chapter 2 and assigned article</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 2 Discussion Questions <input type="checkbox"/> Case Analysis #1 assigned & due in Week 6 <input type="checkbox"/> Review for Exam #1 (Chapters 1 & 2) 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ3 & DQ4

<p style="text-align: center;">Week 3 (Lesson 3)</p>	<p>Systems and Application Software</p> <ul style="list-style-type: none"> • Identify and briefly describe the functions of the two basic kinds of software. • Outline the role of the operating system and identify the features of several popular operating systems. • Discuss how application software can support personal, workgroup, and enterprise business objectives. • Identify three basic approaches to developing application software and discuss the pros and cons of each. • Outline the overall evolution and importance of programming languages and clearly differentiate among the generations of programming languages. • Identify several key software issues and trends that have an impact on organizations and individuals. 	<p>Reading Assignments – Chapter 4</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 3 Discussion Questions <input type="checkbox"/> Review for Exam #1 (Chapters 1 & 2) 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ5 & DQ6 <input type="checkbox"/> Complete Exam #1 (Chapters 1 & 2)
<p style="text-align: center;">Week 4 (Lesson 4)</p>	<p>Data and Business Intelligence</p> <ul style="list-style-type: none"> • Define general data management concepts and terms, highlighting the advantages of the database approach to data management. • Describe logical and physical database design considerations, the function of data centers, and the relational database model. • Identify the common functions performed by all database management systems, and identify popular database management systems. • Identify and briefly discuss business intelligence, data mining, and other database applications. 	<p>Reading Assignments – Chapter 5</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 4 Discussion Questions <input type="checkbox"/> Review for Exam #2 (Chapters 4 & 5) 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ7 & DQ8
<p style="text-align: center;">Week 5 (Lesson 5)</p>	<p>Telecommunications and Networks</p> <ul style="list-style-type: none"> • Identify and describe the fundamental components of a telecommunications system. • Discuss two broad categories of telecommunications media and their associated characteristics. • Briefly describe several options for short-range, medium-range, and long-range communications. • Identify the benefits of using a network. • Describe three distributed processing alternatives and discuss their basic features. • Identify several telecommunications hardware devices and discuss their functions. • List and describe several network applications that organizations benefit from today. 	<p>Reading Assignments – Chapter 6 and assigned article</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 5 Discussion Questions <input type="checkbox"/> Course Project Part-I assigned & due in Week 10 <input type="checkbox"/> Review for Exam #2 (Chapters 4 & 5) 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ9 & DQ10 <input type="checkbox"/> Complete Exam #2 (Chapters 4 & 5)

<p style="text-align: center;">Week 6 (Lesson 6)</p>	<p>BI, Business Process Management, and Informatics</p> <ul style="list-style-type: none"> • Describe Business Intelligence, BI tools, and Business Process Management and their impact on organizations. • Identify key trends and issues in BI and BPM in relation to IS and Informatics. • Discuss key taxonomy and nomenclature relating to IS and Informatics. • Identify key informatics visions for BI and BMP professionals. • Evaluate the application of the main BI tools and BPM in today's organizations • Discuss what influence technology and IS are having on BPM and the use of BI tools to create intelligent organizations. • Define Organizational Knowledge Capital and describe intelligent organizations. • Discuss knowledge and the use BI tools from various information sources to increase accessibility and usability of information systems and organizational knowledge capital. • Examine the complexity of BI and BI tools in organizations and the future of IS and BPM. 	<p>Reading Assignments –Assigned article</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 6 Discussion Questions <input type="checkbox"/> Case Analysis #2 assigned & due in Week 9 <input type="checkbox"/> Complete Case Analysis #1 <input type="checkbox"/> Review & complete Part-I of Final Course Project 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ11 & DQ12 <input type="checkbox"/> Due: Case Analysis #1
<p style="text-align: center;">Week 7 (Lesson 7)</p>	<p>The Web, Intranets, and Extranets</p> <ul style="list-style-type: none"> • Describe how the Internet works, including methods for connecting to it and the role of Internet service providers. • Describe the World Wide Web and how it works. • Explain the use of markup languages, Web browsers, and Web servers. • Identify and briefly describe the process of creating software applications for the Web. • List and describe several sources of information on the Web. • Describe methods of finding information on the Web. • List and describe several forms of online communication, along with the benefits and drawbacks of each, in terms of convenience and effectiveness. 	<p>Reading Assignments – Chapter 7</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 7 Discussion Questions <input type="checkbox"/> Course Project Part 2 assigned & due in Week 11 <input type="checkbox"/> Review for Exam #3 (Chapters 6 & 7) <input type="checkbox"/> Review & complete Part-I of Final Course Project 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ13 & DQ14

	<ul style="list-style-type: none"> • Explain Web 2.0 and provide examples of Web 2.0 sites. • List and describe sources of online media and entertainment. • Explain how Web resources are used to support shopping and travel. • Briefly name and describe two useful Internet utilities. • Explain how intranets and extranets use Internet and Web technologies, and describe how the two differ. 		
Week 8 (Lesson 8)	<p>Electronic and Mobile Commerce</p> <ul style="list-style-type: none"> • Describe the current status of various forms of e-commerce, including B2B, B2C, C2C, and e-Government. • Outline a multistage purchasing model that describes how e-commerce works. • Define m-commerce and identify some of its unique challenges. • Identify several e-commerce and m-commerce applications. • Identify several advantages associated with the use of e-commerce and m-commerce. • Identify the major issues that represent significant threats to the continued growth of e-commerce and m-commerce. • Outline the key components of a successful e-commerce and m-commerce strategy. • Identify the key components of technology infrastructure that must be in place for e-commerce and m-commerce to work. • Discuss the key features of the electronic payment systems needed to support e-commerce and m-commerce. 	<p>Reading Assignments – Chapter 8</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 8 Discussion Questions <input type="checkbox"/> Review for Exam #3 (Chapters 6 & 7) <input type="checkbox"/> Review & complete Final Course Project Part-I 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ15 & DQ16 <input type="checkbox"/> Complete Exam #3 (Chapters 6 & 7)
Week 9 (Lesson 9)	<p>Enterprise Systems</p> <ul style="list-style-type: none"> • Identify the basic activities and business objectives common to all transaction processing systems. • Describe the transaction processing systems associated with the order processing, purchasing, and accounting business functions. • Discuss the advantages and disadvantages associated with the implementation of an enterprise resource planning system. • Identify the challenges that multinational corporations face in planning, building, and operating their enterprise systems. 	<p>Reading Assignments – Chapter 9</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 9 Discussion Questions <input type="checkbox"/> Case Analysis #3 assigned & due in Week 13 <input type="checkbox"/> Review for Exam #4 (Chapters 8 & 9) <input type="checkbox"/> Review & complete Final Course Project Part-I <input type="checkbox"/> Complete Case Analysis #2 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ17 & DQ18 <input type="checkbox"/> Due: Case Analysis #2

<p style="text-align: center;">Week 10 (Lesson 10)</p>	<p>Information & Decision Support Systems</p> <ul style="list-style-type: none"> • Define the stages of decision-making. • Discuss the importance of implementation and monitoring in problem solving. • Explain the uses of MISs and describe their inputs and outputs. • Discuss information systems in the functional areas of business organizations. • List and discuss important characteristics of DSSs that give them the potential to be effective management support tools. • Identify and describe the basic components of a DSS. • State the goals of a GSS and identify the characteristics that distinguish it from a DSS. • Identify the fundamental uses of an ESS and list the characteristics of such a system. • List and discuss other special-purpose systems. 	<p>Reading Assignments – Chapter 10</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 10 Discussion Questions <input type="checkbox"/> Review & complete Final Course Project Part-I <input type="checkbox"/> Review for Exam #4 (Chapters 8 & 9) <input type="checkbox"/> Final Course Project Part-II assigned and due last day of class 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ19 & DQ20 <input type="checkbox"/> Due: Course Project Part-I <input type="checkbox"/> Complete Exam #4 (Chapters 8 & 9)
<p style="text-align: center;">Week 11 (Lesson 11)</p>	<p>Knowledge Management</p> <ul style="list-style-type: none"> • Discuss the differences among data, information, and knowledge. • Describe the role of the chief knowledge officer (CKO). • List some of the tools and techniques used in knowledge management. • Define the term artificial intelligence and state the objective of developing artificial intelligence systems. • List the characteristics of intelligent behavior and compare the performance of natural and artificial intelligence systems for each of these characteristics. • Identify the major components of the artificial intelligence field and provide one example of each type of system. • List the characteristics and basic components of expert systems. • Outline and briefly explain the steps for developing an expert system. • Identify the benefits associated with the use of expert systems. 	<p>Reading Assignments – Chapter 11</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 11 Discussion Questions <input type="checkbox"/> Review for Exam #5 (Chapters 10 & 11) <input type="checkbox"/> Review & complete Final Course Project Part-II 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ21 & DQ22

<p style="text-align: center;">Week 12 (Lesson 12)</p>	<p>Systems Development: Investigation and Analysis</p> <ul style="list-style-type: none"> • Identify the key participants in the systems development process and discuss their roles. • Define the term information systems planning and list several reasons for initiating a systems project. • Discuss the key features, advantages, and disadvantages of the traditional, prototyping, rapid application development, and end-user systems development life cycles. • Identify several factors that influence the success or failure of a systems development project. • Discuss the use of CASE tools and the object-oriented approach to systems development. • State the purpose of systems investigation. • Discuss the importance of performance and cost objectives. • State the purpose of systems analysis and discuss some of the tools and techniques used in this phase of systems development. 	<p>Reading Assignments – Chapter 12</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 12 Discussion Questions <input type="checkbox"/> Review & complete Course Project Part-II <input type="checkbox"/> Review for Exam #5 (Chapters 10 & 11) 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ23 & DQ24 <input type="checkbox"/> Complete Exam #5 (Chapters 10 & 11)
<p style="text-align: center;">Week 13 (Lesson 13)</p>	<p>Systems Development: Design, Implementation, maintenance, and Review</p> <ul style="list-style-type: none"> • State the purpose of systems design and discuss the differences between logical and physical systems design. • Describe the process of design modeling and the diagrams used during object-oriented design. • Discuss the issues involved in environmental design. • Define the term RFP and discuss how this document is used to drive the acquisition of hardware and software. • Describe the techniques used to make systems selection evaluations. • State the purpose of systems implementation and discuss the activities associated with this phase of systems development. • List the advantages and disadvantages of purchasing versus developing software. • Discuss the software development process and list some of the tools used in this process, including object-oriented program development tools. • State the importance of systems and software maintenance and discuss the activities involved. • Describe the systems review process. 	<p>Reading Assignments – Chapter 13</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 13 Discussion Questions <input type="checkbox"/> Review & complete Course Project Part-II <input type="checkbox"/> Complete Case Analysis #3 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ25 & DQ26 <input type="checkbox"/> Due: Case Analysis #3

<p style="text-align: center;">Week 14 (Lesson 14)</p>	<p>Personal and Social Impact of IS</p> <ul style="list-style-type: none"> • Describe some examples of waste and mistakes in an IS environment, their causes, and possible solutions. • Identify policies and procedures useful in eliminating waste and mistakes. • Discuss the principles and limits of an individual's right to privacy. • Explain the types of computer crime and their effects. • Identify specific measures to prevent computer crime. • List the important negative effects of computers on the work environment. • Identify specific actions that must be taken to ensure the health and safety of employees. • Outline criteria for the ethical use of information systems. 	<p>Reading Assignments – Chapter 14</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <input type="checkbox"/> Course Project Review & Discussion <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 14 Discussion Questions <input type="checkbox"/> Review & complete Course Project Part-II <input type="checkbox"/> Review for Exam #6 (Chapters 12, 13, & 14) 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ27 & DQ28
<p style="text-align: center;">Week 15 (Lesson 15)</p>	<p>Organizational Informatics Capstone</p> <ul style="list-style-type: none"> • Complete a course project focusing on a selected topic in Information Systems and Informatics. • Use various resources, including professional literature, both printed and electronic. • Apply selected approaches to better understand various dimensions, implications and perspectives on the subject of Information Systems and Informatics. 	<p>Reading Assignments – Review selected chapters</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lesson Presentation <input type="checkbox"/> Forum Discussions <p>Other Assignments:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Week 15 Discussion Questions <input type="checkbox"/> Review for Exam #6 (Chapters 12, 13, & 14) <input type="checkbox"/> Complete Final Course Project Report and Presentation 	<ul style="list-style-type: none"> <input type="checkbox"/> Discussion Questions – DQ29 & DQ30 <input type="checkbox"/> Due: Final Course Project Part-II Report & Presentation <input type="checkbox"/> Complete Exam #6 (Chapters 12, 13 & 14)