

## Course Description

Prerequisites: COSC 1307 and MATH 1342. This course is a survey of the tools and techniques for the gathering of business information and structuring and manipulation of data to support managerial decision making. Main topic areas include decision support system technology, artificial intelligence tools, expert systems and business applications. (The weekly workload may span 9 to 12 hours approximately and depends on individual students' background.)

## Course Modality, Time and Location

This is a fully asynchronous online course for a 15-week schedule. The online asynchronous components include watching video lectures, reading textbook(s) and supplementary materials, doing exercises, completing quizzes and exam(s), participating in discussion, and/or using other supplementary materials. Students must submit all assessment items by the specified due dates/times.

## Instructor Information

Dr. Wingyan Chung (wchung@uttyler.edu, office: COB 315.09)  
Professor, Computer Science Dept.

## Instructor Office Hours

Monday and Wednesday 10:00 am – 2:30 pm, 3:55 pm – 4:25 pm; and by appointment.  
Emails will normally be answered within 2 business days; emails received during Friday–Sunday will be answered by the following Tuesday. DO NOT use the messaging system in Canvas and in the learning management system.

## Textbook Information

The following textbooks are required throughout the semester (click the title(s) below to view the respective link(s) on a web browser).

- [L] = K. Laudon & J. Laudon [“Management Information Systems: Managing the Digital Firm, 18ed.” – MyLab MIS with eText Instant Access](#), Pearson (2025). (Students must use their university email addresses to register for the MyLab access.)

## Course Objectives

Upon successful completion of this course, students should be able to:

- Describe various types of information systems (IS), their roles and applications in organizations,
- Explain IS concepts and technical infrastructure related to data storage, business analytics, and enterprise applications in organizations,
- Analyze IS and technology needs of modern businesses and industries,
- Apply IS knowledge and computer software to solving managerial problems, and
- Evaluate societal issues pertaining to the development and use of IS.

## Course Materials and Submissions

This class uses Canvas for course documents, slides, submission of assessment items, assignments, online discussions, quizzes and other class-related materials. Students should check the Canvas site frequently during the semester to keep up to date about course activities. Quizzes and exam are proctored by Respondus Lockdown Browser and Monitor. The Mid-term and Final Exam submissions are due by the dates specified on the course schedule. All other submissions are due by 11:59:00 pm on the due date (except otherwise stated). Students should submit their work early to avoid last-minute hassles. Email submission is NOT accepted.

## Course Grading

Assessment of student performance will be based on the following:

Prefix	Category	Points
A	Conceptual Assignments (14 × 20 points)	280
H	Hands-on IT Assignments (3 × 80 points)	240
C	Class Participation (4 × 10 points)	40
M	Mid-term Exam	160
E	Final Exam	280
Total Points		1000

## Grading Scale

A = 900.0 points or more  
 B = 800.0 to less than 900.0 points  
 C = 700.0 to less than 800.0 points  
 D = 600.0 to less than 700.0 points  
 F = Less than 600.0 points

## Grade Composition

1. Conceptual Assignments (A) – Individual, untimed, open-book, open-notes, assignments will contain interactive reading exercises, objective questions, business cases, and/or short-answer questions to help students review and understand course concepts and vocabularies. Students are expected to read the textbook regularly and answer questions provided on the interactive MyLab website linked from Canvas. Late submission (within 2 days after due date) will incur a 30% deduction in score. Submission is closed afterward. Missed submission will result in a zero score and cannot be made up (except for compliance with “Make-up or Extension” policy (see below)).
2. Hands-on IT Assignments (H) – Individual, untimed, open-book, open-notes, hands-on IT assignments will allow students to learn and practice skills on information systems technologies through analytical exercises, computer simulation, software experiments, prototyping, and/or physical interaction. These skills and knowledge are covered in tutorials provided on Canvas and technical concepts described in the course textbook. Students are expected to use the software and practice the skills taught in the tutorials and relevant textbook chapters. Late submission (within 2 days after due date) will incur a 30% deduction in score. Submission is closed afterward. Missed submission will result in a zero score and cannot be made up (except for compliance with “Make-up or Extension” policy (see below)).

3. Class Participation (C) – Class Participation points will be scored by the quantity of quality discussion posts a student contributes regarding published articles relevant to the course topics. No late submission is allowed.
4. Mid-term Exam (M) / Final Exam (E) – Two individual, timed, one-sitting, close-book, close-notes written examinations will be done online (proctored by Respondus) to help students retain knowledge and assess learning outcomes. The exams will be open for a 24-hour period on the dates specified in the course schedule. Objective-type questions (e.g., multiple choice, vocabularies, multiple selections, calculation, short explanations) may appear in the exam. No pause is allowed in the exam. Missed submission will result in a zero score and cannot be made up (except for compliance with “Make-up or Extension” policy (see below)).

## Course Policies

1. Make-up or Extension – Make-up or extension for missed submissions are available ONLY for valid reasons pre-approved by the [Office of Student Accessibility and Resources \(SAR\)](#) or for serious sickness / emergencies (with doctor’s notices / proper documentations submitted prior to or in the same week of the deliverable) approved by the [Campus Assessment, Response, & Evaluation \(CARE\) team](#). To be considered for make-up or a short extension (normally within 2 days after submission is closed), students must arrange with the aforementioned authorities and contact the instructor before the due date of the assessment items.
2. Student Responsibility – Students are required to take timely actions according to the course schedule, to check the learning management system and their university email regularly, and to perform all course-related tasks. Students should behave properly to facilitate active class learning.
3. Academic Integrity – Any act or attempt of academic dishonesty, such as (but not limited to) plagiarism, cheating, collusion, falsifying records, and copyright infringement, is strictly prohibited and will be punished according to the university policies (e.g., [§8-802](#)).
4. UT Tyler AI Statement – UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate. For this course, students must complete all assessment items exclusively by themselves. When use of AI tools is permissible in specific assessment items, it will be clearly stated in the directions, and all use of AI tools must be appropriately acknowledged and cited. Otherwise, the default is that AI tools are not allowed during any stage of an assessment.

## Course Schedule

Start Date	Week	Topic	Materials	Due
8/25	1	Course Introduction; Information Systems and Global Business Today	Syllabus; L1	QS, A1
9/1	2	E-business; IS, Organizations and Strategy	L2-3	A2, A3
9/8	3	IT Infrastructure and Emerging Technologies; Tutorial 1: Problem Solving with Excel	L5, T1	A4, C1
9/15	4	Databases and Information Management	L6	A5, H1
9/22	5	Telecommunications, the Internet, and Wireless Technology; Tutorial 2: Decision Support with Excel	L7, T2	A6, C2
9/29	6	Enterprise IS and Applications <b>Mid-term Exam (Due: 10/3)</b> – coverage: L1-3, L5-7	L9	A7, M
10/6	7	E-commerce and digital markets	L10	A8, H2
10/13	8	Artificial Intelligence Tutorial 3: Making Data-Driven Decisions with Access	L11, T3	A9, C3
10/20	9	Data Analytics and Business Intelligence	L12	A10
10/27	10	Building Information Systems	L13	A11, H3
11/3	11	Securing Information Systems	L8	A12, C4
11/10	12	Making the Business Case for IS and Managing Projects	L14	A13
11/17	13	Ethical and Social Issues in Information Systems	L4	A14
11/24	14	(No Class – Thanksgiving Holiday)	-	-
12/1	15	<b>Final Exam (Due: 12/5)</b> – coverage: L1-14	-	E

## Remarks

L – Course textbook “Mgmt. Info. Sys.: Managing the Digital Firm, 18e” chapter by Laudon & Laudon.

T – Tutorial to be provided on the course website.

A – Assignment

QS – Repeatable Syllabus Quiz (available in the UT Tyler Syllabus module). A satisfactory score is required to access subsequent modules.

C – Class Participation

M – Mid-term Exam (due on the specified date listed on the course schedule)

E – Final Exam (due on the specified date listed on the course schedule)