

Capital University of Economics and Business Overseas Chinese College Course Syllabus

Year and Semester	2024 Spring	g					
Course Name	Operations Research						
Course Code	MIS113						
Course Type	☐ General Education (Required) ☐ General Education (Elective)		ctive)				
	☑ Basic Di	sciplinary	Course	☐ Profess	☐ Professional Course (Required)		
	□Professio	nal Course	(Elective)	□Professi	□Professional Course (Expanded)		
	□Professio	nal Course	(Advanced)		· ·		
Course Credits	3						
Course Hours	Total		Lecture		Experiment		
	Class	54	Hours	54	(Computer)	0	
	Hours		nours		Hours		
	√ Freshman □ Sophomore □ Junior □ Senior						
Applicable object	☐ Business Administration (Accounting)						
	√ Information Management and Information Systems (Finance)						
Prerequisites	Fundamental of Computer Science						
Instructor	Jessie Tian						
	Office: C217						
Contact Information	Tele: (010)83951082						
	Email: tianjiangxue@cueb.edu.cn						
Office Hour	T: 13:30-17:00; W: 15:25-17:00;						
Learning Centre	T: 18:00-20	0:00(online)	; TH: 13:30-1	5:05;			
Grade/Section	2023IT						
Course Time/Place	F: 09:55-12:20/ A201						
Textbook	Managemen	nt Informa	tion Systems	: Managing	g the Digital Fi	rm, Global	
	Edition (14	th Edition)				_	

Reference Book

Database Systems Concept, Sixth Edition by Abraham Silberschatz, Henry F Korth and S, Sudarshan

Course Description

This course is for students to acquire a basic understanding about information system and the interrelationships between information system and business. In nowadays, information system has become a very decisive instrument for both enterprise and government. A well-developed and well-diffused information system could help organization to achieve a better operation, to promote R&D, and to optimize the decisions therefore to increase the competitive advantages. Basically, this course is a multi-disciplinary module which encloses management, business as well as computer science. Through studying this course, students can understand how to combine computer knowledge with business, apply the knowledge to real life, and have the ability to effectively manage enterprises and better operate companies.



Student Learning Outcomes

On successful completion of this course, candidates should be able to:

Knowledge	explain the basic concept of management information system
	describe the management information system and the methodology used
	to collate, record, organize and summarize the information
	• identify the information technologies that can be applied into business
	processes
	• illustrate how management information system can improve decision
	making
Capability	• use the techniques and tools to design and implement information system
	analyze the management issues related with information system
	apply management system to optimize daily work
Mindset	establish the integrity and objectivity in workplace
	be logical, ethical, methodical, consistent and accurate
	apply critical thinking in the process of decision making

Teaching Methods

This course contains lectures, case studies, discussions, homework, quizzes, presentation and exams. Exercises and practice questions will be delivered to students as a way to test their understanding of the knowledge. This will require individual or group assignment before, in or after class.

Grade Criterion

Component	Weight	Description
	20%	A cumulative final examination will be given based on all of the contents
		of the class. The exam paper may be composed of computer operation
Final Exam		questions and case analysis questions. Students should rely primarily on
		homework assignments to give them a sense of what they may see for
		material on exams.
		A cumulative midterm test will be given based on all of the contents that
Mid-Term Test	20%	have been taught in class. The test paper may be mainly composed of
		multiple-choice questions and it should be completed in class.
	15%	Most of the assigned homework is taken from the Exercises in the
Homework		textbook. Assignments will be collected at the clearly stated date. Late
nomework		assignments will not be accepted. The graded assignments may be kept
		by the tutor for reference and won't be returned to students.
	15%	There will be at least 2 quizzes during the semester. Quizzes may or may
Quizzes		not be announced in advance. It may also be used as a way to check the
Quizzes		attendance. Quizzes will test your knowledge of both concepts and the
		application of those concepts.
	10%	The students will be divided into several groups to prepare a presentation.
Presentation		Each student is required to be involved in the presentation. The topics
		can be selected from the textbook or lectures. Each group need to finish
		a PPT related to the topic which is given and hand in the related resources
		to the teacher before the presentation.



Participation	10%	Individuals will be asked to participate individually in a question and answer at least 5 times during the semester. The performances should be counted in their participation.
Attendance	10%	Refer to attendance policy listed below
Total	100%	

Detailed Grade Computation

	Before Midterm	After Midterm
Attendance	5%	5%
Participation	5%	5%
Homework	5%	10%
Quizzes	5%	10%
Presentation		10%
Midterm test	20%	
Final exam		20%
Total	40%	60%

Assessment of Student Performance

Week	Date	Topics	Homework
		Course Introduction and Syllabus	- Read Chapter 1
		● Introduce the textbook and how to read it	
		● Review IS family tree from last semester MIS111	
		● Introduce MIS from IS	- Ake student to look
1		• Show up MIS examples	for MIS examples,
1		 Summary MIS's goodness and weakness 	and show up on paper
		● Show up data → information → knowledge → AI (BI)	- Read Chapter 1 and
		• Summary: IT is important, and IT's future	Chapter 2
		(Chapter 1: Organizations, Management and the Networked	
		enterprises)	
		• Check students' textbook for Chapter 1	
		● Show up Chapter 1 Mind Map: IS → What is IS? → IS purpose	
		(6) \rightarrow IS demensions (3) \rightarrow MIS courses (6) \rightarrow MIS new changes	
	(5)		
		 Review data → information → knowledge → AI 	
2		• Check students' MIS examples	
2		(Chapter 1: Organizations, Management and the Networked	
		enterprises)	
		●Check Chapter 1 test answers from students	- Chapter 1 test
		• Pick up some students' good case, and ask to show up	- Review Chapter 1
			- Preview Chapter 2
			- Heview Chapter 2
		• List Chapter 2 main points (4)	- Analysis group case
3		• Introduce business process using library case	on business process
		• Introduce firm's 3 level jobs, positions and systems from IS	
		• Talk about students' business process cases	
		(Chapter 2: Global E-business and Collaboration)	
		• Show up more business process cases	- Look for system's
		• Summary firm's departments depending on business process	pictures from the
		• Introduce the relationship between IT and	business process cases
		social/behaviour/organization	^



	CAPITAL UNIVERSITY OF ECONOMICS AND BUSINESS	
	• Introduce the relationship among pos machine, China unionpay and bank	
	(Chapter 2: Global E-business and Collaboration)	
	• Review IS and MIS (3 parts)	
	• Review business process using KFC case (includes business	
	process, system, bank and so on)	
	 Summary firm's departments depending on business process 	
	• Introduce the firm's system, such as TPS, MIS, DSS, ESS, SCM,	
	CRM	
	• Introduce social business (Figure 2.8), and give some examples	
4	• Show up IT's relationship with organization/Social behavior	
4	(Chapter 2: Global E-business and Collaboration)	
	• Use student's case to show up the business process	- Draw the database
	• Depending on the case, show up the database's tables and	tables and
	relationship	relationship
	• Show up database tables and relationship based on a business	- Chapter 2 test
	process	_
	(Chapter 2: Global E-business and Collaboration)	- Preview Chapter 3
	• Check Chapter 2 test answers from students (online)	- Group presentation
	• Chapter 3: make 18 groups to do the presentation	on Chapter 3 (marks
	(depending on the Chapter 3's knowledge points to make	for Quiz 1)
	groups)	
	(Chapter 3: Information systems, Organizations and Strategy)	- Start to write report:
		show up the firm's
		background, business
_		process with systems,
5		simple business
		process with
		database's E-R
	A Description on Chapter 2:	diagram and tables
	Presentation on Chapter 3 in groups – Part 1 (Chapter 2: Information systems, Organizations and Stratogy)	- Continue writing the
	(Chapter 3: Information systems, Organizations and Strategy)	report for submit
		- Chapter 3 test
	• Presentation on Chapter 3 in groups – Part 2	- Revise the report
	(Chapter 3: Information systems, Organizations and Strategy)	
6	 Summary Chapter 3 knowledge 	
*		
	• Check Chapter 3 test answers from students	
	(Chapter 3: Information systems, Organizations and Strategy)	
	• Start Chapter 4	
	Show up the Chapter 4's main points (Chapter 4: Ethical and Social Issues in Information Systems)	
	(Chapter 4: Ethical and Social Issues in Information Systems) ● Ask students to make groups depending on APP (蓝墨云班课)	Stort to use ## ==
7	● Ask students to make groups depending on APP (监墨云班床) ● Draw Chapter 4's mind map	- Start to use 蓝墨云
	 Draw Chapter 4's mind map Upload the mind map to the APP (homework function) 	班课 APP
	Comment students' mind map by teacher & other groups	- Comment on the
	(Chapter 4: Ethical and Social Issues in Information Systems)	report using the APP
		in groups
	• Answer Chapter 4 test in groups	- Continue revising
	• Show up the answers of Chapter 4	the report
	(Chapter 4: Ethical and Social Issues in Information Systems)	



		- Preview Chapter 5
		1
	● Introduce Chapter 5 – Part 1	- Continue revising
	(Chapter 5: IT Infrastructure and Emerging Technologies)	the report
8	• Show up the E-R diagram for case	- Continue revising
	• Show up the database's tables and relationship for case	the report
9	● Introduce Chapter 5 – Part 2	- Continue revising
9	(Chapter 5: IT Infrastructure and Emerging Technologies)	the report
	• Answer Chapter 5 test in groups	- Submit the report
	 Show up the answers of Chapter 5 (Chapter 5: IT Infrastructure and Emerging Technologies) 	(hard copy)
	(Chapter 3.11 infrastructure and Emerging Technologies)	- Preview Chapter 6
10	• Introduce Chapter 6 – Part 1	- Create the report
	(Chapter 6: Foundations of Business Intelligence: Database and Information Management)	case's database and
	Introduce MS Access	tables
	• Create database and tables depending on borrowing books from	
	the library	
	• Introduce Chapter 6 – Part 2	- Continue creating
	(Chapter 6: Foundations of Business Intelligence: Database and Information Management)	the report case's
	• Introduce XML and XSL (with HTML) using examples and ppt	database and tables
		- Report 2 for quiz 2
11		start
11		- Star to prepare
		presentation in groups
	• Answer Chapter 6 test in groups	- Preview Chapter 7
	 Show up the answers of Chapter 6 (Chapter 6: Foundations of Business Intelligence: Database and 	
	Information Management)	
	● Introduce Chapter 7 – Part 1	
	(Chapter 7: Telecommunications, The Internet, and Wireless	
12	Technology) • Insert records into the tables using MS Access	- Create the report
	Create the tables' relationship	case's GUI interface
	• Start to design the GUI interface	and insert records
	● Introduce Chapter 7 – Part 2	- Continue creating
13	(Chapter 7: Telecommunications, The Internet, and Wireless	the report case's GUI
	Technology)	interface and insert
		records
	• Answer Chapter 7 test in groups	- Preview Chapter 8
	• Show up the answers of Chapter 7	Tieview Chapter 6
	(Chapter 7: Telecommunications, The Internet, and Wireless	
	Technology)	
	● Introduce Chapter 8 – Part 1	
14	(Chapter 8: Securing Information Systems)	



	 Using the GUI interface to insert records into the database Using the GUI interface to update records into the database Using the GUI interface to delete records into the database Using the GUI interface to view records into the database 	- Make sure the GUI interface can do insert, update, delete and view records functions
	 Introduce Chapter 8 – Part 2 (Chapter 8: Securing Information Systems) Answer Chapter 8 test in groups Show up the answers of Chapter 8 (Chapter 8: Securing Information Systems) 	- Continue making sure the GUI interface can do insert, update, delete and view records functions - Submit the database system online
15	Presentation I Presentation II	
16	Presentation III Presentation IV	

*Self-Study and Reading ability Practice

Instructor will give out the chapters or the reference books to read and use class hours to have discussion; students should be able to show a proactive attitude and ability for self-study and reading. Knowledge and oral English will be elements of homework or presentation score.

Homework

Students should finish their homework by themselves. Copying from others will be treated as cheating and the homework scores will be lowered. Students should hand in all assignments on time. Late assignments will be accepted at the discretion of the instructor (i.e., when the student was ill or had an excused absence). Late assignments without reasonable proof will be reduced in score by 50%.

☞ Attendance

Because the course covers a great deal of material, attending every class session is very important for performing well.

- Being late for 15 minutes or more is considered an absence.
- Five hours or above of unexcused absences will result in the lower level of the final grade by one grade band (e.g. from C – to D +). Any excused absence must be discussed directly with the teacher.
- Absence which is more than 1/3 of the total teaching hours will cause an F (a failing grade) directly. but students are welcome to continue attending classes.
- An incomplete grade (I) will be considered in case of medical or family emergencies.

Participation

- Students should participate in classes actively. Half of participation grade is determined by their presentation in class. They are encouraged to ask questions relevant to the subject and express their own opinions. Every student should respect the ideas, opinions, and questions of their classmates.
- · Students should also use office hours to ask questions or talk with the instructor for good communication and effective learning.
- Frequent visiting the instructor and chatting in English during office hours is highly recommended.



- Any misbehavior and non-class related activities in class will result in the lower level of the participation grade, including ringing cell phones.
- All above behaviors will be solely evaluated by the instructor for scoring.

Textbook

Students must bring the textbook to class.

Topic Course Outline (original)

Note: Some chapters or sections may leave for self-study, this is the students' duty to learn and understand, they may also be included in the quizzes or exams. A review in Chinese may be held during L.C. and O.H. in the semester.

Teacher's Office Hour

- The instructor's office hour is shown in the front of the office door.
- Students are suggested to use the instructor's office hour and learning center to ask questions or talk with the instructor once at least per week for good communication and effective learning, which is recorded in the students' participation.
- The time can be scheduled by instructors or students, or both.

Cheating and Plagiarism

Cheating is not tolerated. Any student caught cheating on a quiz; test or exam will be given a mark of zero (0) for the particular work. At the beginning of the semester the definition of plagiarism will be carefully explained, when any thoughts or writings of another person are used, they must be clearly identified (usually one uses quotation marks) and the source notes. If any student is caught cheating on any homework assignment, the highest score the student can earn in that course is a "C".

Important Dates

Midterm Test	Week 9 or 10	
Final Exam	Week 17 (Refer to the notice of the Academic Affairs	
	Office)	

Note: This syllabus is tentative and may be changed or modified throughout the semester. All students will be notified and a new syllabus will be given.

Instructor: Jiangxue Tian Department Head: Jingning Li