

## Tamkang University Academic Year 103, 2nd Semester Course Syllabus

Course Title	DATA PROCESSING	Instructor	LIN IN-HO
Course Class	TQXGB1A DEPARTMENT OF GLOBAL POLITICS AND ECONOMICS (ENGLISH-TAUGHT PROGRAM), 1A	Details	<ul style="list-style-type: none"> <li>◆ Required</li> <li>◆ One Semester</li> <li>◆ 2 Credits</li> </ul>
Academic Aim of Education			
<p>This is an introductory course of computer science. After completing this course, students should develop computer ethics, fundamental knowledge and ability to use computers efficiently and to meet the global information technology trends.</p>			
Schoolwide essential virtues			
<ul style="list-style-type: none"> <li>A. A global perspective.</li> <li>B. Information literacy.</li> <li>C. A vision for the future.</li> <li>D. Moral integrity.</li> <li>E. Independent thinking.</li> <li>F. A cheerful attitude and healthy lifestyle.</li> <li>G. A spirit of teamwork and dedication.</li> <li>H. A sense of aesthetic appreciation.</li> </ul>			
Course Introduction	<p>This course provides an introductory survey of computer science and Information Communication Technologies. We aim students how to use ICT to master their current study or future jobs and to help ensure the success of their organization. Course materials include the fundamental and powerful roles that information technologies play in the modern global business environment, valuable insight into the strategic role of information systems in modern organizations, and insight into computing technologies such as telecommunications and computer networks, and enterprise Information systems.</p>		

## The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues

I.Objective Levels (select applicable ones) :

- (i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying,  
C4-Analyzing, C5-Evaluating, C6-Creating
- (ii) Psychomotor Domain : P1-Imitation, P2-Mechanism, P3-Independent Operation,  
P4-Linked Operation, P5-Automation, P6-Origination
- (iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing,  
A4-Organizing, A5-Charaterizing, A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues :

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Schoolwide essential virtues that correspond to each teaching objective. Each objective may correspond to one or more Schoolwide essential virtues at a time. (For example, if one objective corresponds to three Schoolwide essential virtues: A,AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Schoolwide essential virtues
1	To understand the framework and operations of Operating Systems	C2	ABCE
2	To understand the applications and service model of ICT	C3	ABCE
3	To understand how to use mobile devices and computing technology on their study and future jobs	P3	ABCE

### Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To understand the framework and operations of Operating Systems	Lecture, Discussion, Practicum	Written test, Participation
2	To understand the applications and service model of ICT	Lecture, Discussion	Written test, Report, Participation
3	To understand how to use mobile devices and computing technology on their study and future jobs	Lecture, Discussion	Written test, Participation

### Course Schedule

Week	Date	Subject/Topics	Note
1	104/02/24~ 104/03/01	1、 Operating Systems: Managing, Coordinating, and Monitoring Resources (1): Types of OS	Ch.9

2	104/03/02 ~ 104/03/08	1、 Operating Systems: Managing, Coordinating, and Monitoring Resources (2) : What the OS Does ? The Boot Process	Ch.9
3	104/03/09 ~ 104/03/15	1、 Operating Systems: Managing, Coordinating, and Monitoring Resources (3) : Features	Ch.9
4	104/03/16 ~ 104/03/22	1、 Operating Systems: Managing, Coordinating, and Monitoring Resources (4) : File Management and Utility Program 2、 HW.#1	Ch.9
5	104/03/23 ~ 104/03/29	1、 Communications and Networks: Sending and Receiving Digital Content (1) : Introduction to Communications	Ch.10, Quiz_1
6	104/03/30 ~ 104/04/05	教學行政觀摩日	
7	104/04/06 ~ 104/04/12	1、 Communications and Networks: Sending and Receiving Digital Content (2) : Networks	Ch.10
8	104/04/13 ~ 104/04/19	1、 Communications and Networks: Sending and Receiving Digital Content (3) : Standards and Protocols	Ch.10
9	104/04/20 ~ 104/04/26	1、 Communications and Networks: Sending and Receiving Digital Content (4) : Software and Communications Lines	Ch.10
10	104/04/27 ~ 104/05/03	Midterm Exam Week	
11	104/05/04 ~ 104/05/10	1、 Information and Data Management: Organizing, Verifying, Maintaining, and Accessing (1) : Database, Data, and Information and File Processing versus Database	Ch.11
12	104/05/11 ~ 104/05/17	1、 Information and Data Management: Organizing, Verifying, Maintaining, and Accessing (2) : Database Management Systems	Ch.11
13	104/05/18 ~ 104/05/24	1、 Information and Data Management: Organizing, Verifying, Maintaining, and Accessing (3) : Information Systems in Enterprise(1) 2、 HW.#2	Ch.11
14	104/05/25 ~ 104/05/31	1、 Information and Data Management: Organizing, Verifying, Maintaining, and Accessing (4) : Information Systems in Enterprise(2) 2、 Quiz_2	Ch.11, Quiz_2
15	104/06/01 ~ 104/06/07	1、 Information Systems and Program Development: Designing and Building Solutions (1) System Development	Ch.12

16	104/06/08 ~ 104/06/14	1、 Information Systems and Program Development: Designing and Building Solutions (2) : Application Development Languages and Tools	Ch.12
17	104/06/15 ~ 104/06/21	Careers in Computers and Certification	
18	104/06/22 ~ 104/06/28	Final Exam Week	
Requirement	register to web site: <a href="http://moodle.learning.tku.edu.tw">http://moodle.learning.tku.edu.tw</a>		
Teaching Facility	Computer, Projector		
Textbook(s)	1、 Discovering Computers by Vermaat 代理商：歐亞書局		
Reference(s)	2、 <a href="http://cengage.com">http://cengage.com</a>		
Number of Assignment(s)	4 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 10.0 %   ◆ Mark of Usual : 20.0 %   ◆ Midterm Exam : 25.0 % ◆ Final Exam : 25.0 % ◆ Other (Lab. ) : 20.0 %		
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> . <b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b>		