

## Tamkang University Academic Year 102, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTERS	Instructor	CHEN, CHENG-CHANG
Course Class	TGUYB0A GENERAL EDUCATION CURRICULUM, 0A	Details	<ul style="list-style-type: none"> <li>◆ Required</li> <li>◆ 2nd Semester</li> <li>◆ 2 Credits</li> </ul>

### Academic Aim of Education

- I. To explore various applications of information technology in life and learning and how they may affect our lives.
- II. To develop basic skills to use computer and software programs.
- III. To develop skills of information communication and information search for learning proposes.
- IV. To help students strengthen their computer application skills that may be needed in other courses on application of information technology.
- V. To develop the ability of using computer for information processing which can be utilized as an instrument of research.
- VI. To develop skills of information communication and information search for better communication with a broader array of computer programs.
- VII. To nurture independent thinking, independent problem-solving skills; and the abilities to maintain interpersonal relations, to use effective communication, and to cooperate with others in a team.

### Schoolwide essential virtues

- A. A global perspective.
- B. Information literacy.
- C. A vision for the future.
- D. Moral integrity.
- E. Independent thinking.
- F. A cheerful attitude and healthy lifestyle.
- G. A spirit of teamwork and dedication.
- H. A sense of aesthetic appreciation.

<b>Course Introduction</b>	<p>The course is designed for freshmen, not only to enhance their computer knowledge, including programming, network management, network communications, multimedia, video graphics and others, but also to improve their abilities for obtaining desired information from Internet. At the same time, related topics, like e-commerce, computer virus and information security, are introduced such that students can have enough skills for further investigating and learning more advanced techniques or applications. Finally, students can apply those abilities and skills to their daily life.</p>
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**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	Conforming the professional features of each colleges and departments	C5	BDEG
2	Establishing the moral of information and concepts	C4	D
3	Development of information literacy.	C5	BDEG
4	Development of the computer skills.	P3	BDEG
5	Students may have the abilities of facing the challenges form information impact.	C6	BDEG

**Teaching Objectives, Teaching Methods and Assessment**

No.	Teaching Objectives	Teaching Methods	Assessment

1	Conforming the professional features of each colleges and departments	Lecture, Discussion, Visit	Written test, Report, Participation
2	Establishing the moral of information and concepts	Lecture, Discussion, Visit	Written test, Report, Participation
3	Development of information literacy.	Lecture, Discussion, Visit	Written test, Report, Participation
4	Development of the computer skills.	Lecture, Discussion, Visit	Written test, Report, Participation
5	Students may have the abilities of facing the challenges form information impact.	Lecture, Discussion, Visit	Written test, Report, Participation

### Course Schedule

Week	Date	Subject/Topics	Note
1	103/02/17 ~ 103/02/23	Introduction	
2	103/02/24 ~ 103/03/02	Multimedia-Audio	
3	103/03/03 ~ 103/03/09	Multimedia-Image	
4	103/03/10 ~ 103/03/16	Multimedia-Video	
5	103/03/17 ~ 103/03/23	Artificial Intelligence (AI)	
6	103/03/24 ~ 103/03/30	Multimedia recognition technique	
7	103/03/31 ~ 103/04/06	Information security	
8	103/04/07 ~ 103/04/13	Network security	
9	103/04/14 ~ 103/04/20	Information morality	
10	103/04/21 ~ 103/04/27	Midterm Exam Week	
11	103/04/28 ~ 103/05/04	Database	
12	103/05/05 ~ 103/05/11	System architecture I	
13	103/05/12 ~ 103/05/18	Exhibition of department of information engineering and computer science (5/12-16)	
14	103/05/19 ~ 103/05/25	System architecture II	
15	103/05/26 ~ 103/06/01	System architecture III	
16	103/06/02 ~ 103/06/08	The future of computer I	

17	103/06/09~ 103/06/15	The future of computer II	
18	103/06/16~ 103/06/22	Final Exam Week	
Requirement			
Teaching Facility	Computer, Projector		
Textbook(s)	資訊概論·淡江大學資訊概論教學團隊·碁峯出版		
Reference(s)			
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 10.0 %    ◆ Mark of Usual : 20.0 % (Information Proficiency Test Included) ◆ Midterm Exam : 30.0 %    ◆ Final Exam : 30.0 % ◆ Other <TA class> : 10.0 %		
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>		