

Tamkang University Academic Year 107, 1st Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTERS	Instructor	FU-YI HUNG
Course Class	TGVOB0A INFORMATION EDUCATION, 0A	Details	<ul style="list-style-type: none"> ◆ Required ◆ One Semester ◆ 2 Credits
Academic Aim of Education			
<ul style="list-style-type: none"> I. Development of information literacy. II. Development of computer skills. III. Building up information ethics. IV. Training of independent thinking. 			
Schoolwide essential virtues			
<ul style="list-style-type: none"> 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. 			
Course Introduction	<p>This course provides an introductory survey of computer science. Progress of this course follows a bottom-up arrangement of subjects that proceeds from the concrete to the abstract. Course materials in this semester includes Number Systems, Computer Organization, Computer Networks, Operating Systems, and Intellectual Property Rights.</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 how data are represented and manipulated in a computer	C3	BDE
2	To understand how operating systems coordinate a computer' s internal activities	C3	BDE
3	To understand how computers constitute networks and share information	C3	BDE
4	To understand what are intellectual property rights and their applications	C3	BDE

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	To understand how data are represented and manipulated in a computer	Lecture, Problem solving	Written test, Participation, Assignment
2	To understand how operating systems coordinate a computer' s internal activities	Lecture, Problem solving	Written test, Participation, Assignment
3	To understand how computers constitute networks and share information	Lecture, Problem solving	Written test, Participation, Assignment

4	To understand what are intellectual property rights and their applications	Lecture, Problem solving	Written test, Participation, Assignment
Course Schedule			
Week	Date	Subject/Topics	Note
1	107/09/10 ~ 107/09/16	Introduction	
2	107/09/17 ~ 107/09/23	Intellectual property	
3	107/09/24 ~ 107/09/30	Computer Programming - Number Systems	
4	107/10/01 ~ 107/10/07	Computer Programming - Number Systems	
5	107/10/08 ~ 107/10/14	Computer Programming - Data Storage	
6	107/10/15 ~ 107/10/21	Computer Programming - Data Storage	
7	107/10/22 ~ 107/10/28	Computer Programming - Data Storage	
8	107/10/29 ~ 107/11/04	Operations on Data	
9	107/11/05 ~ 107/11/11	Operations on Data	
10	107/11/12 ~ 107/11/18	Midterm Exam Week	
11	107/11/19 ~ 107/11/25	Computer Organization	
12	107/11/26 ~ 107/12/02	Computer Organization	
13	107/12/03 ~ 107/12/09	Computer Organization	
14	107/12/10 ~ 107/12/16	Computer Networks	
15	107/12/17 ~ 107/12/23	Computer Networks	
16	107/12/24 ~ 107/12/30	Computer Networks	
17	107/12/31 ~ 108/01/06	Operating Systems	
18	108/01/07 ~ 108/01/13	Final Exam Week	
Requirement	<p>Cheating or plagiarism will receive a semester grade of zero for this course. 作弊或抄襲者學期總成績為零分。</p> <p>If a student's class absence reaches one-third of the total class hours (in a semester) for a particular course, the course instructor will notify the Office of Academic Affairs, and the student will not be allowed to take part in the remaining course examinations and will receive a semester grade (for that course) of zero. 學生對某一科目之缺課總時數達該科全學期授課時數三分之一，經該科教師通知教務處時即不准參加該科目之考試，該科目學期成績以零分計算。</p>		

Teaching Facility	Computer, Projector
Textbook(s)	Foundations of Computer Science, by Behrouz Forouzan and Firouz Mosharraf, Cengage Learning, 3rd Edition, 2014
Reference(s)	計算機概論, B. Forouzan and F. Mosharraf 著, 林仁勇等譯, 學銘圖書 - 歐亞書局, 第二版, 2008 Computer Science Illuminated, by Nell Dale and John Lewis, Jones and Bartlett Publishers, Inc., 5th Edition, 2012
Number of Assignment(s)	6 (Filled in by assignment instructor only)
Grading Policy	<p>◆ Attendance : % ◆ Mark of Usual : 30.0 % ◆ Midterm Exam : 25.0 %</p> <p>◆ Final Exam : 25.0 %</p> <p>◆ Other <Assignments> : 20.0 %</p>
Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php.</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>