

Tamkang University Academic Year 109, 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"> ◆ General Course ◆ Required ◆ One Semester
Departmental Aim of Education			
<p>I. Development of information literacy.</p> <p>II. Development of computer skills.</p> <p>III. Building up information ethics.</p> <p>IV. Training of independent thinking.</p>			
Subject Schoolwide essential virtues			
2. Information literacy. (ratio:100.00)			
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 correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.			
<p>Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.</p> <p>I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.</p> <p>II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.</p> <p>III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.</p>			
No.	Teaching Objectives	objective methods	

1	To understand how data are represented and manipulated in a computer	Cognitive
2	To understand how operating systems coordinate a computer's internal activities	Cognitive
3	To understand how computers constitute networks and share information	Cognitive
4	To understand what are intellectual property rights and their applications	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		2	Lecture	Testing
2		2	Lecture	Testing
3		2	Lecture	Testing
4		2	Lecture	Testing

Course Schedule

Week	Date	Course Contents	Note
1	109/09/14 ~ 109/09/20	Introduction	
2	109/09/21 ~ 109/09/27	Intellectual property	
3	109/09/28 ~ 109/10/04	Computer Programming - Number Systems	
4	109/10/05 ~ 109/10/11	Computer Programming - Number Systems	
5	109/10/12 ~ 109/10/18	Computer Programming - Data Storage	
6	109/10/19 ~ 109/10/25	Computer Programming - Data Storage	
7	109/10/26 ~ 109/11/01	Computer Programming - Data Storage	
8	109/11/02 ~ 109/11/08	Operations on Data	
9	109/11/09 ~ 109/11/15	Operations on Data	
10	109/11/16 ~ 109/11/22	Midterm Exam Week	
11	109/11/23 ~ 109/11/29	Computer Organization	
12	109/11/30 ~ 109/12/06	Computer Organization	
13	109/12/07 ~ 109/12/13	Computer Organization	

14	109/12/14 ~ 109/12/20	Computer Networks	
15	109/12/21 ~ 109/12/27	Computer Networks	
16	109/12/28 ~ 110/01/03	Computer Networks	
17	110/01/04 ~ 110/01/10	Operating Systems	
18	110/01/11 ~ 110/01/17	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		
Textbooks and Teaching Materials	<p>Foundations of Computer Science, by Behrouz Forouzan, Cengage Learning, 4rd Edition, 2018</p> <p>Discovering Computers 2018: Digital Technology, Data, and Devices, by M. Vermaat, etc., 1st Edition, 2017</p>		
References	<p>計算機概論, B. Forouzan and F. Mosharraf 著, 林仁勇等譯, 歐亞書局, 第四版, 2018</p> <p>Computer Science Illuminated, by Nell Dale and John Lewis, Jones and Bartlett Publishers, Inc., 7th Edition, 2019</p>		
Number of Assignment(s)	12 (Filled in by assignment instructor only)		
Grading Policy	<p>◆ Attendance : % ◆ Mark of Usual : 32.0 % ◆ Midterm Exam : 28.0 %</p> <p>◆ Final Exam : 28.0 %</p> <p>◆ Other (Assignments) : 12.0 %</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>		