

## Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTERS	Instructor	FU-YI HUNG
Course Class	TEIDB1A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM)SCIENCE AND	Details	<ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> </ul>
Relevance to SDGs	INFORMATION ENGINEERING, 1A SDG4 Quality education		
<b>Departmental Aim of Education</b>			
<ul style="list-style-type: none"> <li>I. Comprehend professional knowledge.</li> <li>II. Acquire mastery of Practical Skills.</li> <li>III. Establish creative achievement.</li> </ul>			
<b>Subject Departmental core competences</b>			
D. Computer networking application skills.(ratio:100.00)			
<b>Subject Schoolwide essential virtues</b>			
<ul style="list-style-type: none"> <li>1. A global perspective. (ratio:25.00)</li> <li>2. Information literacy. (ratio:50.00)</li> <li>3. A vision for the future. (ratio:25.00)</li> </ul>			
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.**

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

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	D	123	Lecture	Testing
2	D	123	Lecture	Testing
3	D	123	Lecture	Testing
4	D	123	Lecture	Testing

**Course Schedule**

Week	Date	Course Contents	Note
1	110/09/22 ~ 110/09/28	Introduction	
2	110/09/29 ~ 110/10/05	Intellectual property	
3	110/10/06 ~ 110/10/12	Computer Programming - Number Systems	
4	110/10/13 ~ 110/10/19	Computer Programming - Number Systems	
5	110/10/20 ~ 110/10/26	Computer Programming - Data Storage	
6	110/10/27 ~ 110/11/02	Computer Programming - Data Storage	

7	110/11/03 ~ 110/11/09	Computer Programming - Data Storage	
8	110/11/10 ~ 110/11/16	Operations on Data	
9	110/11/17 ~ 110/11/23	Midterm Exam Week	
10	110/11/24 ~ 110/11/30	Operations on Data	
11	110/12/01 ~ 110/12/07	Computer Organization	
12	110/12/08 ~ 110/12/14	Computer Organization	
13	110/12/15 ~ 110/12/21	Computer Organization	
14	110/12/22 ~ 110/12/28	Computer Networks	
15	110/12/29 ~ 111/01/04	Computer Networks	
16	111/01/05 ~ 111/01/11	Computer Networks	
17	111/01/12 ~ 111/01/18	Final Exam	
18	111/01/19 ~ 111/01/25		
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)	10 (Filled in by assignment instructor only)		
Grading Policy	<p>◆ Attendance : 5.0 %   ◆ Mark of Usual : 30.0 %   ◆ Midterm Exam : 27.0 %</p> <p>◆ Final Exam : 28.0 %</p> <p>◆ Other (Assignments) : 10.0 %</p>		

Note	<p>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> .</p> <p><b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p>
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