

## Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTER AND COMPUTATIONAL THINKING	Instructor	FU-YI HUNG
Course Class	TNUOB0H INFORMATION EDUCATION, 0H	Details	<ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> </ul>
Relevance to SDGs	SDG4 Quality education		
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			
<p>2. Information literacy. (ratio:80.00)</p> <p>4. Moral integrity. (ratio:20.00)</p>			
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 Hardware Basic, Software Basic, Networking and Internet, Computer Security 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 hardware units work in computers	Cognitive
2	To understand how system software coordinates computer's internal activities	Cognitive
3	To understand how computers constitute networks and share information	Cognitive
4	To understand how security services prevent computers from attacks and understand what is intellectual property rights	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		24	Lecture	Testing
2		24	Lecture	Testing
3		24	Lecture	Testing
4		24	Lecture	Testing

**Course Schedule**

Week	Date	Course Contents	Note
1	111/02/21 ~ 111/02/25	Introducing Today' s Technologies	
2	111/02/28 ~ 111/03/04	Introducing Today' s Technologies	
3	111/03/07 ~ 111/03/11	Connecting And Communicating Online	
4	111/03/14 ~ 111/03/18	Computers And Mobile Devices	
5	111/03/21 ~ 111/03/25	Programs And Apps	
6	111/03/28 ~ 111/04/01	Digital Security, Ethics, And Privacy	

7	111/04/04 ~ 111/04/08	Digital Security, Ethics, And Privacy	
8	111/04/11 ~ 111/04/15	Computing Components	
9	111/04/18 ~ 111/04/22	Computing Components	
10	111/04/25 ~ 111/04/29	Midterm Exam Week	
11	111/05/02 ~ 111/05/06	Input And Output	
12	111/05/09 ~ 111/05/13	Digital Storage	
13	111/05/16 ~ 111/05/20	Operating Systems	
14	111/05/23 ~ 111/05/27	Operating Systems	
15	111/05/30 ~ 111/06/03	Communicating Digital Content	
16	111/06/06 ~ 111/06/10	Communicating Digital Content	
17	111/06/13 ~ 111/06/17	Building Solutions	
18	111/06/20 ~ 111/06/24	Final Exam Week	
Requirement	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。		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	"Computer Science 2016" , by M. Vermaat, S. Sebok, S. Freund, J. Campbell, M. Frydenberg, Cengage Learning, 1st Edition, 2016		
Number of Assignment(s)	6 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 5.0 %   ◆ Mark of Usual : 45.0 %   ◆ Midterm Exam : 25.0 % ◆ Final Exam : 25.0 % ◆ Other ( ) : %		
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>		