

## Tamkang University Academic Year 111, 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		
D e p a r t m e n t a l   A i m   o f   E d u c a t i o n			
<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			
<ol style="list-style-type: none"> <li>1. A global perspective. (ratio:10.00)</li> <li>2. Information literacy. (ratio:30.00)</li> <li>3. A vision for the future. (ratio:10.00)</li> <li>4. Moral integrity. (ratio:20.00)</li> <li>5. Independent thinking. (ratio:10.00)</li> <li>6. A cheerful attitude and healthy lifestyle. (ratio:5.00)</li> <li>7. A spirit of teamwork and dedication. (ratio:10.00)</li> <li>8. A sense of aesthetic appreciation. (ratio:5.00)</li> </ol>			

Course Introduction	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.
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**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		12345678	Lecture	Testing
2		12345678	Lecture	Testing
3		12345678	Lecture	Testing
4		12345678	Lecture	Testing

Course Schedule

Week	Date	Course Contents	Note

1	112/02/13 ~ 112/02/19	Introducing Today' s Technologies	
2	112/02/20 ~ 112/02/26	Introducing Today' s Technologies	
3	112/02/27 ~ 112/03/05	Connecting And Communicating Online	
4	112/03/06 ~ 112/03/12	Computers And Mobile Devices	
5	112/03/13 ~ 112/03/19	Programs And Apps	
6	112/03/20 ~ 112/03/26	Digital Security, Ethics, And Privacy	
7	112/03/27 ~ 112/04/02	Digital Security, Ethics, And Privacy	
8	112/04/03 ~ 112/04/09	Computing Components	
9	112/04/10 ~ 112/04/16	Computing Components	
10	112/04/17 ~ 112/04/23	Midterm Exam Week	
11	112/04/24 ~ 112/04/30	Input And Output	
12	112/05/01 ~ 112/05/07	Digital Storage	
13	112/05/08 ~ 112/05/14	Operating Systems	
14	112/05/15 ~ 112/05/21	Operating Systems	
15	112/05/22 ~ 112/05/28	Communicating Digital Content	
16	112/05/29 ~ 112/06/04	Communicating Digital Content	
17	112/06/05 ~ 112/06/11	Building Solutions	
18	112/06/12 ~ 112/06/18	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	Technology for Success: Computer Concepts □(Asia Edition), 1st Edition, by Jennifer T. Campbell		

Number of Assignment(s)	6 (Filled in by assignment instructor only)
Grading Policy	<ul style="list-style-type: none"> <li>◆ Attendance : 15.0 %</li> <li>◆ Mark of Usual : 35.0 %</li> <li>◆ Midterm Exam : 25.0 %</li> <li>◆ Final Exam : 25.0 %</li> <li>◆ Other ( ) : %</li> </ul>
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>