Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTER AND COMPUTATIONAL THINKING	Instructor	FU-YI HUNG
Course Class	TNUOB0G INFORMATION EDUCATION, 0G	Details	◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG4 Quality education		

Departmental Aim of Education

Ⅰ. Development of information literacy.

Ⅱ. Development of computer skills.

Ⅲ. Building up information ethics.

Ⅳ. Training of independent thinking.

Subject Schoolwide essential virtues

1. A global perspective. (ratio:10.00)

2. Information literacy. (ratio:30.00)

3. A vision for the future. (ratio:10.00)

4. Moral integrity. (ratio:20.00)

5. Independent thinking. (ratio:10.00)

6. A cheerful attitude and healthy lifestyle. (ratio:5.00)

7. A spirit of teamwork and dedication. (ratio:10.00)

8. A sense of aesthetic appreciation. (ratio:5.00)

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.

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	◆ Attendance： 15.0 % ◆ Mark of Usual：35.0 % ◆ Midterm Exam： 25.0 % ◆ Final Exam： 25.0 % ◆ Other〈 〉: %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at 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 . ※ **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**