# Tamkang University Academic Year 103, 1st Semester Course Syllabus

| Course Title | INTRODUCTION TO COMPUTER SCIENCE | Instructor | LIN IN-HO |
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| Course Class | TQVXB1A<br>DEPARTMENT OF INTERNATIONAL TOURISM MANAGEMENT, 1A | Details | ◆ Required<br>◆ One Semester<br>◆ 2 Credits |

### Academic Aim of Education

This is an introductory course of computer science. After completing this course, students should develop computer ethics, fundamental knowledge and ability to use computers efficiently and to meet the global information technology trends.

### Schoolwide essential virtues

A. A global perspective.

B. Information literacy.

C. A vision for the future.

D. Moral integrity.

E. Independent thinking.

F. A cheerful attitude and healthy lifestyle.

G. A spirit of teamwork and dedication.

H. A sense of aesthetic appreciation.

| Course Introduction | This course provides a general background on computers today: what is a computer, what is hardware, what is software, what is the internet, and what are programs and Apps. No previous experience is required other than the ability to use a web browser.<br>Students will finish the course with a solid understanding of computers, how to use computers, and how to access information on the Web. Topics included are:<br>. Digital Literacy<br>. The Internat<br>. Computers and Mobile Devices<br>. Programs and Apps<br>. Digital Safety and Security<br>. Inside Computers and Mobile Devices |
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## The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues

I.Objective Levels (select applicable ones) :
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 (i) Cognitive Domain    : C1-Remembering,    C2-Understanding,    C3-Applying,
                           C4-Analyzing,      C5-Evaluating,       C6-Creating
 (ii) Psychomotor Domain : P1-Imitation,      P2-Mechanism,        P3-Independent Operation,
                           P4-Linked Operation, P5-Automation,     P6-Origination
 (iii) Affective Domain  : A1-Receiving,      A2-Responding,       A3-Valuing,
                           A4-Organizing,     A5-Charaterizing,    A6-Implementing
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II.The Relevance among Teaching Objectives, Objective Levels and Schoolwide essential virtues :
 (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
 (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
 (iii) Determine the Schoolwide essential virtues that correspond to each teaching objective. Each objective may correspond to one or more Schoolwide essential virtues at a time. (For example, if one objective corresponds to three Schoolwide essential virtues: A,AD, and BEF, list all of the three in the box.)

| No. | Teaching Objectives | Relevance | |
| --- | --- | --- | --- |
| | | Objective Levels | Schoolwide essential virtues |
| 1 | • Present the most-up-to-date technology in an ever-changing discipline<br>• Give students an in-depth understanding of why computers are essential components in business and society<br>• Teach the fundamentals of computers and computer nomenclature, particularly with respect to personal computer hardware and software, and the Web | C3 | ABCE |

### Teaching Objectives, Teaching Methods and Assessment

| No. | Teaching Objectives | Teaching Methods | Assessment |
| --- | --- | --- | --- |
| 1 | • Present the most-up-to-date technology in an ever-changing discipline<br>• Give students an in-depth understanding of why computers are essential components in business and society<br>• Teach the fundamentals of computers and computer nomenclature, particularly with respect to personal computer hardware and software, and the Web | Lecture, Discussion | Written test, Report, Participation |
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| Course Schedule | | | |
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| Week | Date | Subject/Topics | Note |
| 1 | 103/09/15 ~ 103/09/21 | Introduction to the course | |
| 2 | 103/09/22 ~ 103/09/28 | Digital Literacy: Introducing a World of Technology (1) | |
| 3 | 103/09/29 ~ 103/10/05 | Digital Literacy: Introducing a World of Technology (2) | |
| 4 | 103/10/06 ~ 103/10/12 | The Internet: Accessing, Searching, Sharing, and Communicating ( 1 ) | |
| 5 | 103/10/13 ~ 103/10/19 | The Internet: Accessing, Searching, Sharing, and Communicating ( 2 ) | |
| 6 | 103/10/20 ~ 103/10/26 | The Internet: Accessing, Searching, Sharing, and Communicating ( 3 ) | |
| 7 | 103/10/27 ~ 103/11/02 | Computers and Mobile Devices: Evaluating the Possibilities ( 1 ) | |
| 8 | 103/11/03 ~ 103/11/09 | Computers and Mobile Devices: Evaluating the Possibilities ( 2 ) | |
| 9 | 103/11/10 ~ 103/11/16 | Computers and Mobile Devices: Evaluating the Possibilities ( 3 ) | |
| 10 | 103/11/17 ~ 103/11/23 | Midterm Exam Week | |
| 11 | 103/11/24 ~ 103/11/30 | Programs and Apps: Using Software at Work, School, and Home (1) | |
| 12 | 103/12/01 ~ 103/12/07 | Programs and Apps: Using Software at Work, School, and Home (2) | |
| 13 | 103/12/08 ~ 103/12/14 | Programs and Apps: Using Software at Work, School, and Home (3) | |
| 14 | 103/12/15 ~ 103/12/21 | Digital Safety and Security: Identifying Threats, Issues, and Defenses ( 1 ) | |
| 15 | 103/12/22 ~ 103/12/28 | Digital Safety and Security: Identifying Threats, Issues, and Defenses ( 2 ) | |
| 16 | 103/12/29 ~ 104/01/04 | Inside Computers and Mobile Devices: Exploring the Components ( 1 ) | |
| 17 | 104/01/05 ~ 104/01/11 | Inside Computers and Mobile Devices: Exploring the Components ( 2 ) | |
| 18 | 104/01/12 ~ 104/01/18 | Final Exam Week | |

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| Requirement | |
| Teaching Facility | Computer, Projector |
| Textbook(s) | "Discovering Computers: Technology in a World of Computers, Mobile Devices, and the Internet" by Misty E. Vermaat, Susan L. Sebok (歐亞書局 Eurasia Book Co.) |
| Reference(s) | |
| Number of Assignment(s) | **4**    (Filled in by assignment instructor only) |
| Grading Policy | ◆ Attendance： 10.0 ％  ◆ Mark of Usual：30.0 ％  ◆ Midterm Exam： 20.0 ％<br>◆ Final Exam： 20.0 ％<br>◆ Other〈Lab.〉：20.0 ％ |
| 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 .<br>※ **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.** |