

## Tamkang University Academic Year 102, 2nd Semester Course Syllabus

Course Title	LITERATURE OF SCIENCES AND TECHNOLOGIES	Instructor	LING-LING LAI
Course Class	TABXB4A DEPARTMENT OF INFORMATION AND LIBRARY SCIENCE, 4A	Details	<ul style="list-style-type: none"> <li>◆ Required</li> <li>◆ 2nd Semester</li> <li>◆ 2 Credits</li> </ul>
Departmental Aim of Education			
Our mission is to educate and train library and information professionals.			
Departmental core competences			
<ul style="list-style-type: none"> <li>A. To understand concepts relating to library and information science and to grasp the relevant trends.</li> <li>B. To acquire professional abilities to develop, organize, preserve and integrate all sorts of information resources.</li> <li>C. To understand concepts relating to information technology and systems, and be able to put them in use.</li> <li>D. To acquire communication and coordination skills required for the information services.</li> <li>E. To acquire management skills required by different types of libraries and information organizations.</li> <li>F. To acquire professional skills to manage electronic documents and archives.</li> <li>G. To acquire integration ability of library services and traditional publishing.</li> <li>H. To acquire integration ability of library services and digital publishing.</li> </ul>			
<b>Course Introduction</b>	This course is a continual study of resources for the science and technology. With the understanding of various types of literature (such as technical reports, patents, conference proceedings, dissertations, etc.) in science and technology from the previous semester, we will now focus on selected subjects in science and technology and their reference tools in this semester.		

## The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I. Objective Levels (select applicable ones) :

- |                         |                                     |                           |
|-------------------------|-------------------------------------|---------------------------|
| (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-Characterizing,   | A6-Implementing           |

II. The Relevance among Teaching Objectives, Objective Levels and Departmental core competences :

- (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 Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A, AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	<p>This is an introductory course that aims to give students understandings and knowledge of resources and services provided in science and technology related libraries and information centers.</p> <p>At the end of the semester, students will be able to: (1) have understanding of information behavior of sci-tech professionals; (2) know various types of resources in sci-tech disciplines; (3) provide reference services in sci-tech libraries and information centers.</p>	A6	BD
2	<ul style="list-style-type: none"> <li>Understand how to use major reference tools in the science and technology by hands-on projects.</li> <li>Become familiar with some of the trends or up-and-coming areas of research in science and technology.</li> <li>Gain understanding of trends in scientific publishing and discussions surrounding access to information in the sciences.</li> <li>Understand how professionals in different fields of science and technology work and research.</li> </ul>	P4	BD

### Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment

1	<p>This is an introductory course that aims to give students understandings and knowledge of resources and services provided in science and technology related libraries and information centers. At the end of the semester, students will be able to: (1) have understanding of information behavior of sci-tech professionals; (2) know various types of resources in sci-tech disciplines; (3) provide reference services in sci-tech libraries and information centers.</p>	Lecture, Discussion, Practicum, Problem solving	Practicum, Report, Participation
2	<ul style="list-style-type: none"> <li>• Understand how to use major reference tools in the science and technology by hands-on projects.</li> <li>• Become familiar with some of the trends or up-and-coming areas of research in science and technology.</li> <li>• Gain understanding of trends in scientific publishing and discussions surrounding access to information in the sciences.</li> <li>• Understand how professionals in different fields of science and technology work and research.</li> </ul>	Lecture, Discussion, Problem solving	Report, Participation

This course has been designed to cultivate the following essential qualities in TKU students

Essential Qualities of TKU Students	Description
◇ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◇ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◇ A vision for the future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.
◇ Moral integrity	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.
◇ Independent thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.
◇ A cheerful attitude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.
◇ A spirit of teamwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◇ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

#### Course Schedule

Week	Date	Subject/Topics	Note
1	103/02/17 ~ 103/02/23	Introduction to the course	
2	103/02/24 ~ 103/03/02	Scientific Communication	
3	103/03/03 ~ 103/03/09	Sci-Tech Library and Innovative Information Services	
4	103/03/10 ~ 103/03/16	Information Needs of University Students Studying Science and Technology	
5	103/03/17 ~ 103/03/23	Providing Information Literacy Instruction to Graduate Students	
6	103/03/24 ~ 103/03/30	Issues in Science and Technology Librarianship (1)	
7	103/03/31 ~ 103/04/06	Campus Closed	
8	103/04/07 ~ 103/04/13	Issues in Science and Technology Librarianship (2)	
9	103/04/14 ~ 103/04/20	Issues in Science and Technology Librarianship (3)	
10	103/04/21 ~ 103/04/27	Midterm Exam Week	
11	103/04/28 ~ 103/05/04	Invited Talk	
12	103/05/05 ~ 103/05/11	Presentation: Netnography (1)	

13	103/05/12 ~ 103/05/18	Presentation: Netnography (2)	
14	103/05/19 ~ 103/05/25	Presentation: Netnography (3)	
15	103/05/26 ~ 103/06/01	Graduate Exam Week	
16	103/06/02 ~ 103/06/08	---	
17	103/06/09 ~ 103/06/15	---	
18	103/06/16 ~ 103/06/22	---	
Requirement			
Teaching Facility	Computer		
Textbook(s)			
Reference(s)			
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 20.0 %   ◆ Mark of Usual : 15.0 %   ◆ Midterm Exam : 30.0 % ◆ Final Exam : 35.0 % ◆ 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>		