Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	CALCULUS	Instructor	CHU, LIOU
Course Class	TQIDB1A DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY (ENGLISH-TAUGHT PROGRAM), 1A	Details	◆ General Course ◆ Required ◆ One Semester

Departmental Aim of Education

Cultivate professional talents in developing and applying information system in various fields.

Subject Departmental core competences

B. Capability of applying basic mathematics and information technology related mathematics(ratio:100.00)

Subject Schoolwide essential virtues

2. Information literacy. (ratio:60.00)

5. Independent thinking. (ratio:40.00)

Course Introduction	The course gives an introductory concept of calculus with examples and application contents in order to establish foundations for advanced courses.

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	(1)coordinate systems (2)function (3)differentiation (4)integration (5)application (6)course development	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	B	25	Lecture, Discussion	Testing, Discussion(including classroom and online), Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	108/09/09 ~ 108/09/15	Ch 0. A Pre-calculus Review	
2	108/09/16 ~ 108/09/22	Ch 1. Functions, Graphs, and Limits	
3	108/09/23 ~ 108/09/29	Ch 2. Differentiation	
4	108/09/30 ~ 108/10/06	Ch 2. Differentiation	
5	108/10/07 ~ 108/10/13	Ch 3. Applications of the Derivative, 1st quiz.	
6	108/10/14 ~ 108/10/20	Ch 3. Applications of the Derivative	
7	108/10/21 ~ 108/10/27	Ch 4. Exponential and Logarithmic Functions	
8	108/10/28 ~ 108/11/03	Ch 4. Exponential and Logarithmic Functions	
9	108/11/04 ~ 108/11/10	Ch 4. Exponential and Logarithmic Functions	
10	108/11/11 ~ 108/11/17	Midterm Exam Week	
11	108/11/18 ~ 108/11/24	Ch 5. Integration and its Applications	

12	108/11/25~ 108/12/01	Ch 5. Integration and its Applications	
13	108/12/02~ 108/12/08	Ch 5. Integration and its Applications	
14	108/12/09~ 108/12/15	Ch 6. Techniques of Integration, 2nd quiz.	
15	108/12/16~ 108/12/22	Ch 6. Techniques of Integration	
16	108/12/23~ 108/12/29	Ch 7. Functions of Several Variables	
17	108/12/30~ 109/01/05	Ch 7. Functions of Several Variables	
18	109/01/06~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)	

Requirement	1. 1. Attendance of all classes is required. 請務必出席所有課程。 2. Any absence will result in at least 5 points of "Participation" deducted. Please call me or text me before class. 病假事假扣「課堂表現」5分，請上課前通知老師。 3. Absence without leave will result in 30 points of "Participation" deducted. 曠課每次扣「課堂表現」30分。 4.Cheating or plagiarism will result in failure in the course. 作弊、抄襲會導致本課程不及格。 5. Talking, eating, using mobile phone and wearing slippers during class are not allowed, and will be expelled from the class. 上課請勿： 交談、飲食、使用行動電話，或穿著拖鞋。 以上行為因影響教師課程進行，將被要求離開教室。 6. Late arrival, early departure (over 20 minutes), and the stated inappropriate behavior will result in 30 points of "Participation" deducted. 遲到、早退 (超過20分鐘)，及前述不當行為每次扣「課堂表現」30分。
Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	Calculus, An Applied Approach, Larson, Houghton Mifflin, 10th or the latest edition.
References	
Number of Assignment(s)	**6** (Filled in by assignment instructor only)
Grading Policy	◆ Attendance： % ◆ Mark of Usual：40.0 % ◆ Midterm Exam： 20.0 % ◆ Final Exam： 20.0 % ◆ Other〈Participation〉：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 .
	※**Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**