國立東華大學

Syllabus

( ) Course Name in Chinese	( )AC	/ Academic Year/Semester	103/1
( ) Course Name in English	Calculus(I)		

Course Code	AM_1050AC	Department & Year		Course-Offering Department	
Type	Program	/ Credit(s)/Hour(s)		3.0/3.0	

Instructor	/
Prerequisite	

Course Description
Topics include the Limit of a Function, The Differentiation of a Function, The Integral of a Function and their application.

Course Objectives
Calculus provides a tool for solving problems involving morion. The derivatives is useful in the study of rates of change of many entities. The definite integral also has many applications in the sciences.

College Basic Learning Outcomes		Correlation between Course Objectives and Basic Learning Outcomes
A	Basic math knowledge, logical reasoning, analytical and problem-solving skills.	
B	Ability to express ideas and communicate in Chinese and foreign languages and teamwork skills.	
C	Lifelong learning ability.	

Illustration	Highly correlated	Moderately correlated

Teaching Schedule & Content		
Week	Subject/Topics	Remarks
1	1.1	; ; A4
2	1.1 1.2 1.4	

3	1. 4 1. 5 2. 1	(9/30) : 1. 1: 2, 4, 8, 20, 22, 24, 26, 32; 1. 2: 12, 22, 28, 42, 58, 60, 66, 68, 70, 72, 75, 78
4	2. 2 2. 3	(10/7) : 1. 4: 12, 24, 30, 31, 52, 54, 60, 64, 70 1. 5: 12, 18, 36, 38 chapter 1 review page 137: 4, 12, 16, 18, 22, 42 2. 1: 12, 15, 50, 52
5	2. 5 2. 6	(10/14) : 2. 2: 12, 22, 24, 26, 32, 33, 40, 42, 50, 54, 58, 72 2. 3: 4, 6, 10, 12, 19, 24, 38, 50, 52, 55, 58, 61
6	2. 7 2. 9	(10/21) : 2. 5: 2, 4, 8, 12, 21, 24, 26, 46 2. 6: 2, 6, 12, 20, 24, 30, 34, 38, 48, 52, 66, 76
7	3. 1	
8	3. 2 3. 3	(11/4) : 2. 7: 4, 12, 16, 22, 24, 28, 30, 32 2. 9: 22, 24 chapter 2 review page 237: 8, 12, 16, 18, 20, 40, 52, 54, 60, 66, 78, 80,
9	3. 4 3. 5	(11/11) : 3. 1: 8, 12, 16, 18, 46, 58, 60 3. 2: 24, 28, 36, 37 3. 3: 12, 16, 18, 24, 32, 34, 35, 52, 57
10	3. 6	

11	4. 1 4. 2 4. 3	(11/25) : 3. 4: 13, 15, 21, 31, 37, 41, 45 3. 5: 8, 12, 14, 16, 22, 24, 32, 50, 52, 54 3. 6: 7, 11, 19, 23 chapter review page 344: 3, 5, 9, 23, 25, 43, 47, 51, 55
12	4. 3 4. 4 4. 5	(12/2) : 4. 1: 2, 6, 8, 12, 14, 19, 22, 24 4. 2: 8, 12, 15, 21, 23, 28, 34, 35, 36, 38, 41, 44, 45, 47
13	5. 1	
14	5. 2 5. 3	(12/16) : 4. 3: 40, 42, 44 4. 4: 15, 16, 22, 48, 50 4. 5: 4, 6, 8, 11, 12, 20, 21, 25, 27, 28, 35, 37, 39, 42, 60, 62, 88, 92
15	6. 1 6. 2	(12/23) : 5. 1: 12, 17, 21, 28, 32 5. 2: 7, 11, 13, 15, 19, 20, 25 5. 3: 4, 6, 8, 12, 15, 16
16	6. 3 6. 4	(12/30) : 6. 1: 28, 30, 40, 42, 51, 52, 56, 66, 69, 72, 74, 76, 78, 80, 82, 84, 91, 92 6. 2: 15, 20, 22, 26, 50, 53, 56, 57
17	6. 5 6. 7	(1/6) : 6. 3: 18, 24, 26, 28, 30, 32, 34, 36, 38, 42, 44, 49, 50, 85, 90, 91, 92, 94, 101, 102, 116 6. 4: 22, 24, 27, 39, 49, 50

18	Final Exam		6.5: 33, 35, 37, 39, 51, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85 6.7: 1, 3, 5, 7, 11, 15, 19, 37, 41, 42, 52

Teaching Strategies

☑ Lecture	☐ Group Discussion	☐ Field Trip
☐ Miscellaneous:		

Grading & Assessments

Items	Percentage	Assessments							
General Performance									
Midterm Exam	50%								
Final Exam	40%								
Homework and/or Assignments	10%								
Miscellaneous (_____)									

Grading & Assessments Supplemental instructions

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Soo T. Tan: Calculus

Teaching Aids & Teacher's Website (Personal website can be listed here.)

(Supplemental instructions)