Tamkang University Academic Year 113, 2nd Semester Course Syllabus

| Course Title | Course Title CALCULUS | | CHEN, HUNG-YIN | | | |
|--|--|---------|---|--|--|--|
| Course Class | TLAXB1P DEPARTMENT OF ACCOUNTING, 1P | Details | General Course Required 2nd Semester 2 Credits | | | |
| SDG4 Quality education Relevance to SDGs | | | | | | |
| Departmental Aim of Education | | | | | | |
| I. Acquis | ition of professional knowledge. | | | | | |
| П. Learnir | ng effective self-planning. | | | | | |
| III. Theore | tical application of practical matters. | | | | | |
| IV. Interpe | ersonal communication and teamwork. | | | | | |
| V. Analysi | s of problems and recommendations. | | | | | |
| VI. Awarer | ness of Ethics as a global citizen. | | | | | |
| Subject Departmental core competences | | | | | | |
| | A. Students can demonstrate that they have program basic knowledge of business and management.(ratio:40.00) | | | | | |
| | B. Students can demonstrate that they have capability in professional knowledge expression. (ratio:10.00) | | | | | |
| | C. Students can demonstrate that they have capability in using information technology. (ratio:10.00) | | | | | |
| D. Students | s can demonstrate that they are critical thinkers.(ratio:40.00) | | | | | |
| Subject Schoolwide essential virtues | | | | | | |
| 1. A global perspective. (ratio:5.00) | | | | | | |
| 2. Information literacy. (ratio:20.00) | | | | | | |
| 3. A vision for the future. (ratio:10.00) | | | | | | |
| 4. Moral integrity. (ratio:15.00) | | | | | | |
| 5. Independent thinking. (ratio:30.00) | | | | | | |
| 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 roduction | additio | nal topics in integration | aspects of calculus, including integratior , and multivariable calculus, providing stu ng of this foundational mathematical disc | udents with | | |
| | The o | correspo | | ourse's instructional objectives and the d psychomotor objectives. | cognitive, affective, | | |
| | | | | ng the cognitive, affective and psychomor | tor | | |
| | | | - | s kinds of knowledge in the cognition of | | | |
| II.A [.] | | | | ocedures, outcomes, etc. kinds of knowledge in the course's appea | I, | | |
| | mor | als, attitu | ude, conviction, values, e | | | | |
| | - | nipulation | | | | | |
| No. | | Teaching Objectives objective methods | | | | | |
| | | | imental concepts of inte | | Cognitive | | |
| | | | oblems. Master addition ultivariable functions, co | | | | |
| | | | rentials, and multiple int | | | | |
| | | | edge to solve practical | | | | |
| | - | _ | , and mathematical prob | | thode and according | | |
| | | onespond | | : core competences, essential virtues, teaching me | מוסעה, מווע מההלה אוולווג | | |
| No. | Core Compet | ences | Essential Virtues | Teaching Methods | Assessment | | |
| 1 | ABCD | | 12345678 | Lecture, Practicum | Testing, Practicum | | |
| | Course Schedule | | | | | | |
| Week | Date | | Cour | rse Contents | Note | | |
| 1 | 1 ^{114/02/17~} 114/02/23 5.1 Indefinite Integrals and Differential Equations | | | | | | |
| 2 | 114/02/24 ~ 114/03/02 | 5.2 Inte | gration by Substitution | | | | |

| | 1 | | | | |
|-------------------|--------------------------|--|--|--|--|
| 3 | 114/03/03~ 114/03/09 | 5.2 Integration by Substitution | | | |
| 4 | 114/03/10~ 114/03/16 | 5.3 The Definite Integral and the Fundamental Theorem of Calculus | | | |
| 5 | 114/03/17 ~ 114/03/23 | 5.3 The Definite Integral and the Fundamental Theorem of Calculus | | | |
| 6 | 114/03/24 ~ 114/03/30 | 5.4 Applying Definite Integration: Distribution of Wealth and Average Value | | | |
| 7 | 114/03/31~ 114/04/06 | Teaching Administration Observation | | | |
| 8 | 114/04/07 ~ 114/04/13 | 5.5 Additional Applications of Integration to Business and Economics | | | |
| 9 | 114/04/14 ~ 114/04/20 | Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed) | | | |
| 10 | 114/04/21~ 114/04/27 | 6.1 Integration by Parts | | | |
| 11 | 114/04/28 ~ 114/05/04 | 6.1 Integration by Parts | | | |
| 12 | 114/05/05~ 114/05/11 | 6.3 Improper Integrals | | | |
| 13 | 114/05/12~ 114/05/18 | 6.4 Introduction to Continuous Probability | | | |
| 14 | 114/05/19~ 114/05/25 | 7.1 Functions of Several Variables | | | |
| 15 | 114/05/26~ 114/06/01 | 7.2 Partial Derivatives | | | |
| 16 | 114/06/02 ~ 114/06/08 | 7.3 Optimizing Functions of Two Variables | | | |
| 17 | 114/06/09~ 114/06/15 | Final Exam/Final Assessment Week (teachers can adjust the week as needed) | | | |
| 18 | 114/06/16~ 114/06/22 | Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options. | | | |
| Кеу | / capabilities | self-directed learning Problem solving | | | |
| Interdisciplinary | | | | | |
| | _ | | | | |

| Distinctive teaching | | | | | |
|-------------------------------------|--|--|--|--|--|
| Course Content | Logical Thinking | | | | |
| Requirement | Attendance will be taken randomly. After the class ends, a supplementary attendance for tardiness (which counts as half of the attendance score) will be allowed, but no supplementary attendance will be accepted afterward. Scoring will be based on the ratio of "attendance/total roll-call count" in the iClass system. Students who miss the roll call should submit a leave request within one week and provide the leave form for record correction in the iClass system. Requests made after the deadline will not be accepted. If the total hours of absenteeism (without leave) reach one-sixth of the total class hours for the semester, the student will be disqualified from the exam (the semester grade will be calculated as zero). To ensure fairness, there is no make-up exam policy. It is mandatory to attend all exams, and any absence will result in a zero score. The grading method for senior students (or higher year students) is the same as for other grade levels. | | | | |
| Textbooks and Teaching Materials | Using teaching materials from other writers:Textbooks Name of teaching materials: Calculus for Business, Economics, and the Social and Life Sciences, 11th ed. Hoffmann Bradley, Sobecki Price, 東華/新月出版, ISBN: 9789869614191 | | | | |
| References | | | | | |
| Grading Policy | ♦ Attendance: 10.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 35.0 % ♦ Final Exam: 35.0 % ♦ Other (TA course): 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. X Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. | | | | |
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