Calculus 304002001 Syllabus

Fall 2017

A. **Instructor Information.**

- Instructor: Huang, Tzee-Ming

- Email: tmhuang@nccu.edu.tw

- Office hours: Monday 8:00-10:00 and by appointment

B. **Textbook (not required).** Calculus, 3rd Edition by Monty J. Strauss, Gerald L. Baradley and Karl J. Smith

C. **Course Objectives.** There are two main objectives of this two-semester course. The first objective is to help students to gain a solid understanding of basic concepts such as functions, limits, derivatives and integrals. The second objective is to help students to develop relevant problem solving skills so that they can be better prepared for higher level courses such as Advanced Calculus or Mathematical Statistics.

D. **Grading Policy.**

- Optional work: $x\%$, where $0 \leq x \leq 40$ is determined by homework scores.

- Midterm: $(50 - 0.5x)\%$

- Final: $(50 - 0.5x)\%$

E. **Time requirement.** The students are expected to spend 3–4.5 hours outside class each week on course work.

F. **Additional Information.**

- The topics in the class schedule on Page 2 are subject to modification. Up-to-date reading schedule will be posted after the class starts on the course homepage at

  `https://stat.walkup.tw/teaching/calculus/F17/homepage.html`

Tentative Class Schedule

Week	Content	Chapter(s)
1	Functions and graphs	1
2	Limits and continuity	2
3	Limits and continuity	2
4	N/A	N/A
5	Differentiation	3
6	Differentiation	3
7	Differentiation	3
8	Applications of derivative	4
9	Applications of derivative	4
10	Midterm	
11	Applications of derivative	4
12	Applications of derivative	4
13	Integration	5
14	Integration	5
15	Integration	5
16	Integration	5
17	Integration	5
18	Final	