Syllabus: Advanced Calsulus (II)

1. **Description**:

   This course is concerned with the basic theories of the analysis of sequences and functions defined on $\mathbf{R^n}$ or a complete metric space. There are two topics that we will cover throughout the course:

   1: Multidimensionall Theory: Sequences, functions, differentiablity, ingetrability on $\mathbf{R^n}$.

   2: Abstract Theory.

2. **Topic prerequisites**:
   Calculus.

3. **Couse information**:

   (a) Lecture: Every Tue. and Thu. 10:10-12:00

   (b) Seminar: Every Wed. 12:10-13:00

   (c) Room: Math. Building 201

   (d) Textbook: An Introduction to Analysis/ William R. Wade

   (e) Teacher: Chih-Chiang Huang, E-mail: cchuang@ccu.edu.tw, Math Building 435

   (f) Office hours: Wed. 13:00-15:00, Math. Building 435

   (g) TA: 吳承燁, E-mail: denny0107a@gmail.com; Q&A:

4. **Grading**

   Grade (100%)= Final exam (40%)+ Midterm exam (30%)+ Quiz (30%) (Choose 5 from 6)

5. **Exam Schedule**

   (a) Quiz1-6: 3/11, 3/25, 4/15, (3nd, 5th, 8th week) 5/6, 5/20, 6/3 (11th, 13th, 15th week)(Wed.)12:10-12:30

   (b) Midterm Exam1: 4/21(Tue.) 10:10-12:00 (9th week)

   (c) Final Exam: 6/16(Tue.) 10:10-12:00 (17th week)