Course Description

Department of Mathematics

Nature of the course ☐ required ☐ elective	Area ☐ Algebra ☐ Analysis ☐ Geometry ☐ Statistics ☐ Applied Mathematics ☐ Discrete Mathematics ☐ Others				
Calculus	■ Calculus A ☐ Calculus B				
Course number	201 101A1	Section number	06	Number of credits	4
Course title	CALCULUS (GENERAL MATHEMATICS) (A)(1)				
Instructor	Wei-Zhe Yang [楊維哲]				

I. Contents：

Calculus for physics freshmen can only be very standard! I will emphasize: "limiting behavior", small perturbation, analogies between difference and differential quotients.

II. Course prerequisite：

III. Reference material (textbook(s))：

Reference material：楊維哲：微積分（三民書局）
Textbooks：
高木（Takaki）:解析概論（General Analysis）
E. Landau：Foundation of Analysis.
Haier-Wanner：Analysis by Its History.
翁秉仁：微積分

IV. ＊Grading scheme：請填寫各項計分之百分比，例如：期中 30% 期末 40% 作業 10% 報告 20%，總計 100%

期中考 30%

期末考 40%

平常及作業 30%

V. Others：

VI. Course Goal：

I hope the students will learn a big chunk of calculus: standard technique, and the "meaning" of rigorous analysis.