

Calculus

Instructor: 歐士田 (Austin)

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Instructor's information

- Ph. D. in Statistics (1994, Texas A&M University); 統計系副教授
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 - Thur (台北, 10-4PM, 25024654-18287); or make appointments by e-mail.

Preliminaries for this class

- Text book
 - “**Calculus for Business, Economics, and the Social and Life Sciences**” (10th edition) by Hoffmann & Bradley
- Course evaluation
 - Attendance (5%) ;
 - Quizzes (25%)
 - 1 midterm exam + 1 final exam (35% for each)

Notes

- Quizzes will be held without prior notification (不定期且未通知之小考).
- Text book would be highly used during the courses.
- Communication and interaction are the basic components for a good course!
- 課程致勝法門: 預習 + 複習

Content

- Chapter 1. Functions, graphs, and limits
- Chapter 2. Differentiation
- Chapter 3. Additional applications of the derivative
- Chapter 4. Exponential and logarithmic functions

Content

- Chapter 5. Integration
- Chapter 6. Additional topics in integration
- Chapter 7. Calculus of several variables

Key basic concepts of Calculus

- All techniques are learned for understanding the main role, FUNCTION.
- Main components
 1. Derivative
 2. Integration
- It is impossible to learn Integration well without fully understanding Derivative.

Functions?