

Advanced Engineering Mathematics

高等工程數學

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Course Introduction

1. Course contents
2. Textbook
3. School time
4. Classroom
5. Course evaluation
6. Examination time



1. Course contents

1. First-order ordinary differential equations
2. Second-order linear ordinary differential equations
3. Higher order linear ordinary differential equations
4. Systems of differential equations, phase plane
5. Series solutions of differential equations
6. Laplace transforms
11. Fourier analysis



2. Textbook

D.-C. Tseng, *Lecture Note on Advanced Engineering Mathematics*, 8th Edition, Dept. Computer Sci. & Information Eng., National Central University, Feb. 2012.

(Down load from

<http://ip.csie.ncu.edu.tw/> 課程 / 工程數學 / 下載講義)

Erwin Kreyszig, *Advanced Engineering Mathematics*, 10th Edition (Abridged international student edition), John Wiley & Sons, NY, 2011. (ISBN: 1118165098)

歐亞書局

電話：02-89121188

網站：<http://www.eurasia.com.tw>

E-mail：eurasia@eurasia.com.tw



3. School time

Wednesday 3:00 - 6:00 pm

Total teaching 42 hours
exam. 6 hours

4. Classroom

E6-204

	二	三
Feb.	28	29
Mar.	6	7
	13	14
	20	21
	27	28
April	3	
	10	11
	17	18
	24	25
May	1	2
	8	9
	15	16
	22	23
	29	30
June	5	6
	12	13
	19	20



5. Course evaluation

Three examinations + A practical course

(3 × 30 %)

(10 %)

6. Examination time and classroom

3/28 (三) 3:00 – 5:00 pm

5/16 (三) 3:00 – 5:00 pm

6/20 (三) 3:00 – 5:00 pm

at E6-204