

Engineering Mathematics II (10720MS 201201), 2019S

Class Time: T3T4/R3R4 (200 minutes)

Class Room: 台達 B05

Instructor: Ta-Jen Yen (嚴大任)
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Textbooks: Advanced Engineering Mathematics (2nd edition), *Michael D. Greenberg*, 滄海書局

Grading: Quizzes (x3, 25%)
Midterms (x2, 50%)
Final (25%)

TAs: TBA

TA Hours: 7:00-8:30 pm, every other Wednesday

Readers: TBD

Content:

The subject of *Engineering Mathematics* is comprised of five parts within two semesters:

1. Ordinary Differential Equations (Chapters. 2-7)
2. Linear Algebra (Chapters. 8-12)
3. *Multivariable Calculus and Field Theory* (Chapters. 13-16)
4. *Fourier Methods and Partial Differential Equations* (Chapters. 17-20)
5. *Complex Variable Theory* (Chapters. 21-24)

In *Engineering Mathematics II*, we focus on “*Multivariable Calculus and Field Theory*”, “*Fourier Methods and Partial Differential Equations*”, and “*Complex Variable Theory*” to cover the rationale and of particular the engineering applications. Note that this course will be given in English. In addition, you can also browse my Chinese lectures in OCW website.