

# Engineering Mathematics – Part I

## Syllabus for # ME 2005

### **COURSE OUTLINE:**

This course will provide much of the post-calculus mathematics needed by undergraduate-level engineering students (but not limited). To take it, you should have known the basics of calculus. The subjects to be covered include:

1. First-Order Differential Equations
2. Second-Order Differential Equations
3. Laplace Transform

### **COURSE OPERATION:**

Instructor: Yuan-Jen Chang (張元震)

Telephone : ext. 4129

Office: EM 334

Email: changy@yuntech.edu.tw

Textbook: Peter V. O'Neil, "Advanced Engineering Mathematics", 8e SI Edition, 2018, Cengage Learning

Schedule: Lectures: Monday 10:10 – 12:00 (EM205)  
Wednesday 09:10 – 10:00 (EM205)

Office Hours: TBA

Grading: Homework + Quiz: 30%, Mid-term Exam I: 25%, Mid-term Exam II: 25%,  
Final: 30%

### **HOMEWORK:**

You have to turn in homework every class after the 3<sup>rd</sup> week of this semester. At least 2 problems should be practiced every day, Monday through Friday. The purpose of homework sets is for students to practice. No solution will be provided. Part of the examinations will contain the exactly same problems in homework sets in the textbook.

### **EXAMINATIONS:**

All examinations will be closed book, with no written or printed materials allowed. A strict time limit will apply to the exams. Any argument for each examination will be closed in a week after the grading. Further argument will be strictly prohibited. **(It might change depending on the COVID-19 pandemic situation.)**

### **SPECIAL NOTE ABOUT GRADING:**

Any discussion for final grade is limited to the final exam and its grading only. Any other arguments will be strictly prohibited.