

Ordinary Differential Equations (APM288H1F)

Textbook : Boyce & DiPrima,

Elementary Differential Equations and Boundary Value Problems, 7th Ed.

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Lectures : Mon 11am, GB119; Wed 9am, GB120; Thu 11am, MS3171.

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Course Outline

We cover (in full or partially) chapters 2, 3, 4, 5, 6, 7 and 9.

There will be two midterm exams and the final exam. Your grade for the course will be computed as follows:

$$\text{Grade} = 0.5F + 0.25M_1 + 0.25M_2,$$

where F is your mark in the final exam, and M_1 , M_2 are your midterm marks.

Assigned Exercises

1.1	20, 24	4.3	7, 10, 13, 17
1.3	1-6, 7, 8, 10, 11, 13-16, 21-24	4.4	4, 15
2.1	4, 7, 10, 13, 14, 16, 19, 26, 28, 35, 36	5.2	4, 12, 21
2.2	2, 6, 7, 12, 14, 26, 30, 33	5.3	6, 8, 10, 11
2.3	9, 12, 18, 24, 29	5.4	3, 9, 17, 24, 25
2.4	13, 15, 19, 22, 27, 30, 32	5.5	4, 6, 9, 16, 26
2.5	5, 16, 22	6.1	15
2.6	3, 11, 14, 18, 22, 23, 28	6.2	14, 19, 21, 25
2.7	1	7.1	10
p.126	12, 20, 29	7.3	13, 22
3.1	4, 7, 10, 14, 22, 27, 28, 33, 36, 40	7.4	6
3.2	1, 2, 5, 14, 17, 26	7.5	2, 3, 7, 9, 11, 15, 18, 20, 25, 29, 31
3.3	4, 8, 9, 17, 21, 25	7.6	3, 4, 9, 23, 26
3.4	9, 13, 22, 29, 42	7.7	1, 5, 13, 16
3.5	8, 14, 16, 25, 27	7.8	2, 6, 16, 19
3.6	5, 18, 21, 28, 31, 32, 33	7.9	3, 4, 5, 8
3.7	2, 9, 10, 16, 28, 29	9.1	1a,b, 6a,b, 17
3.8	29	9.2	3, 4, 8a,c, 19, 21
3.9	15	9.3	5, 9, 25, 28
4.1	3, 8, 15, 19a,b, 22, 28	9.4	4
4.2	5, 8, 15, 17, 21, 30, 35	9.5	2