

MAT 414, Section M001, Fall 2016

MWF 9:30-10:25, Carnegie 119

Instructor: Dan Coman, 317D Carnegie, phone 443-1496, e-mail: dcoman@syr.edu
Office hours: MW 1:30-2:30, Th 2-3

Textbook: *Elementary Differential Equations, 10th ed.*, by William E. Boyce and Richard C. DiPrima.

Exams: There are two in-class exams, on Friday, October 7, and on Monday, November 14, each worth 25% of your grade. The final exam is on Friday, December 16, 3:00-5:00 PM, it is comprehensive, and it is worth 30% of your grade. There are no make-up semester exams, and the final exam will not be given at any other time. To receive credit, you will have to show all details of your work on each exam or assignment.

Quizzes: Quizzes will be given about once a week and will account for 10% of your grade. There will be no make-up quizzes, but the lowest quiz score will be dropped. All excused absences for medical or family emergencies must be documented. Travel plans are not a valid excuse for an absence.

Homework: *Solving the homework problems is crucial in order to succeed at exams and quizzes.* Homework accounts for 10% of your grade. The due dates for the assigned homework problems will be announced in class. *Late homework will not be accepted.* You are encouraged to discuss the homework problems with your classmates and to work together, but the work you submit must be your own.

Calculators: A calculator is not required for this course. *In particular, no calculators will be allowed on the exams or quizzes. Use or availability of any calculator or other electronic device on the exams or quizzes will be a violation of the Academic Integrity Policy.* You may use calculators for learning purposes and for solving homework. On exams and quizzes complete solutions, and not merely answers, must be presented to receive credit.

Attendance: Attendance is required. Students are responsible for all the announcements made in class (about exams, assignments, quizzes, due dates, changes of schedule, etc). If you miss a class, you are responsible for obtaining notes for that class from a student who attended.

The mandatory homework problems from each section are the following:

Chapter 1:

Sec. 1.1: 1, 6, 15, 16, 22

Sec. 1.2: 1b, 7, 17

Sec. 1.3: 2, 6, 8, 10

Chapter 2:

Sec. 2.1: 14, 15, 16, 17, 18, 19

Sec. 2.2: 2, 3, 4, 5, 9ac, 10ac

Sec. 2.3: 1, 2, 3, 29

Sec. 2.4: 1, 2, 7, 8, 13, 14

Sec. 2.5: 5, 10, 12, 15

Sec. 2.6: 2, 3, 4, 5, 7

Sec. 2.7: 1a, 2a

Chapter 3:

Sec. 3.1: 2, 4, 9, 10, 12, 16, 17, 21

Sec. 3.2: 4, 8, 11, 17, 19, 25, 29, 34

Sec. 3.3: 3, 4, 8, 9, 18, 19, 39

Sec. 3.4: 2, 3, 5, 12, 23

Sec. 3.5: 8, 9, 15, 16

Sec. 3.6: 3, 13

Sec. 3.7: 2, 3, 6, 7, 8, 11, 17

Sec. 3.8: 5, 9, 11

Chapter 7:

Sec. 7.1: 3, 4, 5, 6

Sec. 7.2: 1ac, 2bd, 4, 10, 13, 21cd, 23

Sec. 7.3: 2, 3, 7, 8, 16, 17, 18

Sec. 7.4: no assigned homework

Sec. 7.5: 2, 4, 6, 11

Sec. 7.6: 2, 3, 14

Sec. 7.7: 3, 6, 11, 12

Sec. 7.8: 1bc, 2bc, 3bc, 7a

Sec. 7.9: 4, 7

Chapter 6:

Sec. 6.1: 5ab

Sec. 6.2: 2, 3, 10, 12, 13, 14

Sec. 6.3: 1, 7, 12, 13, 19, 20, 21

Sec. 6.4: 4a, 5a, 7a

Sec. 6.5: 3a, 8a, 9a