

AMAT 311 L01, Fall 2007

Instructor: Jędrzej Śniatycki, MS 420. Office hours (by appointment): Mondays 14:15-15:45.

Text: William F. Trench, Elementary Differential Equations, Brooks/Cole

Quizzes: There will be 5 quizzes given in labs. Credit of 5% for each quiz; total 25%.

Lecture Schedule

Week	Sections	Topics
Sept 10-14	1.1, 1.2, 1.3	Introduction
Sept. 17-21	2.1, 2.2, 2.4	First order equations
Sept. 24-28	2.4, 2.5, 2.6	First order equations
Oct. 1-5	2.3, 4.1, 4.2	Existence theorems, Applications
Oct. 10-12	–, 4.3, 4.3	Elementary mechanics
Oct. 15-19	5.1, 5.1, 5.2	Linear second order equations
Oct. 22-26	5.3, 5.4, 5.5	Linear second order equations
Oct. 29 - Nov 2	5.6, 5.7, 5.7	Linear second order equations
Nov. 5-9	6.1, 6.2, 6.4.	Applications
Nov. 14-16	–, R, M	Review (R) and Midterm (M)
Nov. 19-23	7.1, 7.2, 7.3	Series solutions (regular points)
Nov. 26-30	7.4, 7.5, 7.6	Series solutions (singular points)
Dec. 3-7	8.1, 8.2, 8.3	Laplace transform

Labs and Quizzes

Labs begin in the second week of classes, September 17-21. During each lab, the Instructor will answer questions about problems from the text, solve some problems on the blackboard and administer a quiz, if one is scheduled.

Students are encouraged to do all problems in the sections of the text covered in the course that do not require technology.

Date	Quizzes / Sections	Problems
Sep. 17, Monday		Sec. 2.1- 2.2
Sep. 20, Thursday		Sec. 2.1 - 2.2
Sep. 24, Monday	Quiz 1a / Linear and separable eqns.	Sec. 2.4 - 2.6
Sep. 27, Thursday	Quiz 1b / Linear and separable eqns	Sec. 2.4 - 2.6
Oct. 1, Monday	Quiz 2a / Sec. 2.4-2.6	Sec. 4.1 - 4.2
Oct. 4, Thursday	Quiz 2b / Sec. 2.4-2.6	Sec. 4.1 - 4.2
Oct. 8, Monday	Thanksgiving	No classes
Oct. 11, Thursday		Sec. 4.1 - 4.2
Oct. 15, Monday	Quiz 3a / Sec. 4.1-4.2	Sec. 4.3
Oct. 18, Thursday	Quiz 3b / Sec. 4.1-4.2	Sec. 4.3
Oct. 22, Monday		Sec. 5.1 - 5.3
Oct. 25, Thursday		Sec. 5.1 - 5.3
Oct. 29, Monday	Quiz 4a / Sec. 5.1-5.3	Sec. 5.4 - 5.5
Nov. 01, Thursday	Quiz 4a/ Sec. 5.1-5.3	Sec. 5.4 - 5.5
Nov. 05, Monday		Sec. 5.6 -5.7
Nov. 08, Thursday		Sec. 6.1 - 6.2
Nov. 12, Monday	Reading Day	No classes
Nov. 15, Thursday		Review
Nov. 19, Monday	Quiz 5a / Sec. 5.6-5.7	Sec. 6.4
Nov. 22, Thursday	Quiz 5b / Sec. 5.6 - 5.7	Sec. 6.4
Nov. 26, Monday		Sec. 7.1 - 7.3
Nov. 29, Thursday		Sec. 7.1 - 7.3
Dec. 3, Monday		Sec. 7.4 - 7.6
Dec. 6, Thursday		Sec. 7.4 - 7.6