

GRANDE PRAIRIE REGIONAL COLLEGE
MATH 2010

Title: Differential Equations

Schedule: Lecture:
Seminar:

Instructor:

Textbook: Fundamentals of Differential Equations, Vth Edition by Nage, Staff, and Snider.
Sections 2.1-2.4, 2.6, 4.1-4.9, 7.1-7.7, 7.9, 8.1-8.3, 10.1-10.6

Grading:	Quizzes	10%
	Assignments	10%
	Midterm Exam	25%
	Final Exam	55%

Problems: In addition to the formal assignment questions to be handed in for grading there will be problems given in each class from the textbook which you must do to successfully complete this course.

Seminars/

Assignments: During this hour, assistance in general textbook problems will be given. Also help on specific assignments questions is available during this period.

Quizzes: There will be weekly quizzes held during the class period. Quizzes if missed, cannot be taken later.

Midterm: The Midterm Exam will be given during mid-term week. If the midterm is missed for a valid reason, with accompanying letter, its value will be transferred to the final.

Final: The final exam time is set by the Registrar's Office.

Calculators: Calculators may be used in classes and seminars to check work. No calculators are permitted in the Midterm or Final Exam.

MA 2010 Differential Equations 3(3-1-0)

First-order equations; second-order linear equations: reduction of order variation of parameters; Laplace transform; linear systems; power series; solution by separation of variables for PDEs.

Prerequisite or corequisite: MA 2140

Detailed Course Outline

Week (Winter 2002)	Section in Text
1. Jan. 3 – 4	2.1, 2.2
2. Jan. 7 – 11	2.3, 2.6, 4.1
3. Jan. 14 – 18	4.2, 4.3, 4.4
4. Jan. 21 – 25	4.5, 4.6, 4.7
5. Jan. 28 – Feb. 1	4.8, 4.9, 7.1
6. Feb. 4 – 8	7.2, 7.3
7. Feb. 11 – 15	7.4, 7.5, 7.6
8. Feb. 18 – 22 (Monday Holiday and mid term week)	7.7
9. Feb. 25 – Mar. 1 (Spring Break)	
10. Mar. 4 – 8	7.8, 7.9, 2.4
11. Mar. 11 – 15	8.1, 8.2, 8.3
12. Mar. 18 – 22	10.1, 10.2
13. Mar. 25 – 29 (Friday holiday)	10.3
14. Apr. 1 – 5	10.4, 10.5
15. Apr. 8 – 12	10.6, Review