

# Math 4B: Differential Equations – Syllabus Summer Session B

**Lecture:** MTWR 1100h-1205h Chem 1171

**Instructor:** Harris Enniss

**Office Hours:** MW 1315h-1445h South Hall 6432P, or by appointment.

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**Text:** Boyce and DiPrima *Elementary Differential Equations and Boundary*

*Value Problems*

**Prerequisites:** Math 4A or 4AI with a minimum grade of C.

**Objectives:** Classify ordinary differential equations. Solve first and second order linear differential equations. Solve systems of first order linear differential equations. Create and solve models for physical problems. Interpret the stability of linear and nonlinear equations.

**Grading:** 30% Homework, 30% Midterm, 35% Final, 5% Section attendance.

**Homework:** Homework will be assigned through Webwork, and will be due Monday and Wednesday at 10AM. Late homework will not be accepted.

**Exams:** Exams will be held in lecture on August 20th and September 10th (the Thursdays of the 3rd and 6th week). Please arrive on time. Make up exams will not be given. DSP students should make any necessary arrangements through DSP as soon as possible.

Bring a pencil or pen. You may bring one 3" x 5" double sided notecard. No calculators.

**Crashers:** If you're crashing this course, please attend a section and do the homework. In section, add your name to the roll and indicate you are crashing.

Tentative schedule (subject to change).

Date	Sections	Homework (Due 10AM)
8/3	1, 2.3, 2.2	
8/4	2.2, 2.1	
8/5	2.6	Homework 1
8/6	2.4, 2.8	
8/10	3.1, 3.2	Homework 2
8/11	3.3, 3.4	
8/12	3.5, 3.6	Homework 3
8/13	3.7, 3.6	
8/17	4.1, 4.2	Homework 4
8/18	4.3, 4.4	
8/19	4.2, Review	Homework 5
8/20	EXAM	Covers chapters 1-3
8/24	4.3, 4.4	Homework 6
8/25	7.1, 7.2, 7.3	
8/26	7.4, 7.5	Homework 7
8/27	7.6	
8/31	7.7, 7.8	Homework 8
9/1	7.9	
9/2	9.1	Homework 9
9/3	9.2, 9.3	
9/7	9.4, 9.5	Homework 10
9/8	8.1?	
9/9	Review	Homework 11
9/10	EXAM	Covering chapters 4, 7, 9.