

**Instructor: D. Xu** ([dashunxu@siu.edu](mailto:dashunxu@siu.edu))

**MATHEMATICS 305 Fall 2022**

**OFFICE:** Neckers A 273

**PHONE:** 453-6598

**OFFICE HOURS:** 9-10am; 1:55-2:55pm or by appointment

**CALCULATOR:** None Allowed!

**BOOK:** *Elementary Differential Equations & Boundary Value Problems*, by Boyce and DiPrima 10<sup>th</sup> ed.

**Tentative Schedule**

<b>Week 1</b>	1.1-1.3; 2.1-2.2	<b>Week 8</b>	3.5, 3.6
<b>Week 2</b>	2.2, 2.6	<b>Week 9</b>	4.1, 4.2
<b>Week 3</b>	2.6, 2.5	<b>Week 10</b>	4.3, 4.4
<b>Week 4</b>	2.5, 2.4	<b>Week 11</b>	10.1
<b>Week 5</b>	3.1,	<b>Week 12</b>	10.2, 10.3
<b>Week 6</b>	3.2, 3.3	<b>Week 13</b>	10.3, 10.4
<b>Week 7</b>	3.4, 3.5	<b>Week 14</b>	10.5

**Exams**

Week 5/6 (Exam 1)	Week 12/13 (Exam 2)	Final Exam	
Friday?	Friday?		
Time for the final posted by registrar's office			

**Grading Scale**

90 ↑ A	80 ↑ B	70 ↑ C	60 ↑ D	59 ↑ F
--------	--------	--------	--------	--------

**Grades**

Each midterm exam is 20% of your grade	40%
Homework	25%
Final	35%
Attendance (bonus)	3%

Important Dates

Grading Information

Last Day to drop with Refund: 9/4; Last Day to drop w/o Refund: 10/30

**Tentative homework schedule: If time permits, part of Chap 5 will be also covered.**

Date	Homework	
Week 1		
Week 2	1.3: 1-6, 8, 9;; 2.1: find the general sol. to 1,3,5,7, 8 2.1: 9,11(part c), 13, 15, 17, 19;; 2..2: 1, 2, 5, 6, 7, 13(a,c);; optional: 23	
Week 3	2.1: 8, 20; 2.2: find the solution to 14, 22; 2.6: 2, 3, 4, 5, 7, 8, 2.6: 9, 13, 14 (find the solution); 2.6: 18, 22, 25, 26, 27;;	
Week 4	2.6: 28, 30 2.4: 2, 5, 7, 11, 2.4: 28, 29, 30, 31 2.4: 31	
Week 5		<b>Exam 1 Fri?</b>

	2.5: 3, 4, 7, 10 3.1: 1, 3, 9, 13, 15, 20	
Week 6	3.2: 3, 5, 9, 11, 13, 26 3.3: 12, 15, 3.3: 18,19, 22;	
Week 7	3.4: 7, 9, 10, 11, 13, 23,25, 27, 30	
Week 8	3.5: 1, 5, 3, 6, 7, 8, 10, 15, 21-25(a)	
Week 9	3.5: 15, 16, 17, 18, 19. 3.6: 3, 4, 5, 7, 13, 14, 16, 17 4.1: 14, 15 4.2: 13, 16,	
Week 10	4.2: 14, 17, 19, 22, 23, 24, 29, 31, 33, 35 4.3:4, 7, 9,	
Week 11	4.3:1, 3, 6, 9, 10, 4.3: 12, 13, 16, 18 4.4: 2, 3, 6, 9, 10	
Week 12	10.1: 1, 3, 4, 5 10.1: 2, 14, 16, 18	Exam 2 Fri?
Week 13	10.2: 1, 2, 13, 14, 15 10.3: 1, 2, 3,	
Week 14	10.3: 7a, 9a, 11a 10.4: 7, 8, 9, 15, 16, 24(a,b) 10.5: 1, 2, 5, 6, 7, 8	
Week 15	Practice for the final: Midterm exams and practice exams,	