

**SPRING 2011**  
**MATH 2280**

**ORDINARY DIFFERENTIAL EQUATION**  
**CRN# 20408**

MWF 9:00AM - 9:50AM (NIB150)  
Jan.10 2010 – May 05 2010 (3 credit hours)

<b>Instructor:</b>	Jie Liu	<b>Email address:</b>	<a href="mailto:liu@dixie.edu">liu@dixie.edu</a>
<b>Office Room #:</b>	NIB147	<b>Office Hours:</b>	11:00-11:50 MWF
<b>Office Phone #:</b>	652-7983		10:15-11:50 TR

**Text Book**

Differential Equations, 9<sup>th</sup> edition by Dennis, G. Zill.

**Course Description**

All mathematics classes at Dixie State College support the general education goal of the college, and will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of Math2280, a student will demonstrate through testing the ability to:

- Solve ordinary differential equations using the following solution types: exact, implicit, series, or discrete applications.
- Solve systems of ordinary linear differential equations by differential operators, Laplace, or matrix methods.
- Apply ordinary and systems of differential equations to solving applications.

**Disabilities**

Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

## **Dmail**

All information sent from the college or the instructor will be sent to your Dmail account. You MUST check that email account frequently. You are responsible for knowing what is contained within those messages.

## **Policy for Absences Related to College Functions**

Please refer to college student policy **5.23 Attendance**.

<http://www.dixie.edu/humanres/polstu.html>

## **Important dates/deadlines**

Important dates /deadlines are included in the following Assignments and Tentative Schedule and also can be found in the following link.

<http://www.dixie.edu/reg/calendar.html>

## **Resources**

Library - <http://library.dixie.edu>

Writing Center - [http://new.dixie.edu/english/dsc\\_writing\\_center.php](http://new.dixie.edu/english/dsc_writing_center.php)

Testing Center - <http://new.dixie.edu/testing>

Tutoring Center - <http://new.dixie.edu/tutoring/>

## **Grades**

**Tests:** 15% each (4 tests, total 60%). Each student is expected to take the examinations as scheduled in the syllabus. Make-up exams will be given at the discretion of instructor, and only if prior arrangements have been made.

**Homework:** 20% Refer to Assignment and tentative schedule.

Homework are to be done each day, but will only be collected at the end of each chapter. Points will be deducted by two points per day for late homework.

**Final comprehensive exam:** 20%

Grades will be assigned as follows: : **A** (94-100%), **A-** (90-93%), **B+** (87-89%), **B** (83-86%), **B-**(80-82%), **C+**(75-79%), **C** (70-74%), **C-**(65-69%), **D+**(60-64%), **D**(55-59%), **D-** (50-54%), **F**(0-49%)

*Enjoy your learning adventure!*

### Assignments and Tentative Schedule

Course schedules, assignments, and exam dates are subject to change as circumstances dictate. It is the responsibility of each student to attend the class and get the updated info.

Date	Lecture	Homework Assignments	
<b>Week 1</b>			
M 01/10	1.1	1-37 Odd	<b>First day of Class</b>
W 01/12	1.2	1-27 Odd	<b>Last day to add without signature</b>
F 01/14	1.3	1-21 Odd, 22	
<b>Week 2</b>			
M 01/17		<b>Martin Luther King day. Holiday (No class)</b>	
T 01/18		<b>Drop fee begins (\$10 per class)</b>	
W 01/19	2.1	1-13 Odd, 19-31 Odd	<i>Chapter 1 hwk due</i>
F 01/21	2.2	1-29 Odd, 35-38 All	
<b>Week 3</b>			
M 01/24	2.3	1-17 Odd, 25, 27	
T 01/25		<b>\$50 Late Registration/Payment Fee</b>	
W 01/26	2.4	1-15 Odd, 21,23,25,31,33,35	
F 01/28	2.5	1-17 Odd	
<b>Week 4</b>			
M 01/31	Review		
T 02/01		<b>Pell Grant Census/ Last day for Refund/Last day to drop without receiving a "W" grade</b>	
W 02/02	<b>Test 1</b>	<b>Chapter 1&amp; 2</b>	<i>Chapter 2 hwk due</i>
		<b>(Courses dropped for non-payment)</b>	
F 02/04	3.1	1,9,11,19,27,29,35	
		<b>Last day to add classes</b>	
<b>Week 5</b>			
M 02/07	3.2	1,5,25	
W 02/09	3.3	7,9,11,13,17	
F 02/11	4.1.1 4.1.2	1-13 Odd 15-29 Odd	<i>Chapter 3 hwk due</i>
<b>Week 6</b>			
M 02/14	4.1.3	31-35 Odd	
W 02/16	4.2	1-15 Odd	
F 02/18	4.3	1-49 Odd	
<b>Week 7</b>			
M 02/21		<b>President Day. Holiday (No class)</b>	
W 02/23	4.4	1,7,13,27,35,39,41	
F 02/25	4.5	1-41 Eoo	
<b>Week 8</b>			
M 02/28	4.6	1-25 Eoo	<b>Mid-term Grades Due</b>

W	03/02	4.7	1-37 Eoo	
F	03/04	4.8	1-23 Odd	<b>Last day to drop/audit</b>
<b>Week 9</b>				
M	03/07	4.9	1-17 Eoo	
W	03/09	Review		
F	03/11	<b>Test 2</b>	<b>Chapter 3 &amp;4</b>	<i>Chapter 4 hwk due</i>
<b>Week 10</b>				
M-F	03/14 - 03/18		<b>Spring Break (No class)</b>	
<b>Week 11</b>				
M	03/21	7.1	1-41 Odd	
W	03/23	7.2	1-41 Odd	
Th	03/24		<b>Summer registration open for all students</b>	
F	03/26	7.3	1-61 Eoo	
<b>Week 12</b>				
M	03/28	7.3	Catch up	
W	03/30	7.4	1-53 Eoo	
F	04/01	7.5	1-13 Eoo	<b>Last Day for Complete withdrawal</b>
<b>Week 13</b>				
M	04/04	7.6	1-17 Odd	
W	04/06	Review		
F	04/08	<b>Test 3</b>	<b>Chapter 7</b>	<i>Chapter 7 hwk due</i>
<b>Week 14</b>				
M	04/11	8.1	1-25 Eoo	
W	04/13	8.2	1-37 Eoo	
F	04/15	8.3	1-33 Eoo	<b>Fall registration open for all students</b>
<b>Week 15</b>				
M	04/18	8.4	1-21 Eoo	
W	04/20	Review		
F	04/22	<b>Test 4</b>	<b>Chapter 8</b>	<i>Chapter 8 hwk due</i>
<b>Week 16</b>				
M	04/25		Final Review	
W	04/27		Final Review	
F	04/29		<b>No Class (Final Exams begin)</b>	
<b>Final Exam: Wednesday, May 4<sup>th</sup> 10:00-12:00</b>				