Math 420 - Differential Equations - 10808
Summer 2010 - American River College

Course Information

Instructor:	Kristin Lui	Location:	ARC TEMPS 600
Email:	luik@arc.losrios.edu	Meet Times:	MTWR, 5:30 pm – 7:35 pm
Website:	http://ic.losrios.edu/~luik	Dates:	June 14, 2010 – August 5, 2010

Course Materials

- Required textbook: Zill – A First Course in Differential Equations (9th ed.). Brooks/Cole
- A graphing calculator is highly recommended such as a TI – 83 or above.

Learning Outcomes

Upon completing this course, a student will be able to:

- Apply basic tools of mathematics to solve engineering application problems
- Analyze and apply different methods of solving differential equations
- Solve systems of linear differential equations
- Apply Laplace transforms to solve application problems

Proof of Prerequisite

Students must have taken MATH 401 with a grade of "C" or better. By June 16, 2010 (third class meeting), you must provide proof of satisfying the prerequisite or you will be dropped from the class. You may provide an unofficial Los Rios transcript or a Prerequisite/Placement Verification Form signed by an ARC counselor.

Grades

Course grades will be determined by the following:

Quizzes	100 points
Exams	400 points
Final Exam	200 points
Total Points	700 points

Letter grades will be assigned by the scale below:

A	90% or above
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	59% or below

Exams There will be four 1-hour exams during the summer session. Exams must be taken in class. Calculators, books, and notes are **NOT** allowed during exams. There are no make-up exams. You have the option of replacing your lowest exam score with your final score.

Quizzes Quizzes will be given during class meetings. Calculators, books, and notes are **NOT** allowed during quizzes. There are no make-up quizzes. Three of the lowest quiz scores will be dropped.

Final Exam The final exam is cumulative and will cover chapters 1-8. The final will be given on the last day of class: **August 5, 2010**. No make-ups!

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Important Dates

Tentative Dates for Exams:

- Exam 1 June 24
- Exam 2 July 12
- Exam 3 Aug. 2
- Final Exam Aug. 5

Other Dates

- NO CLASS July 5

Last day to:

- drop with refunds June 18
- enroll June 26
- drop without a W June 27
- drop with a W July 23

Attendance

Attendance is required. Excessive unexcused absences (3 or more) may result in the student being dropped from the course. Please notify me of any absences in advance either by email or in-person during class (email is best). Students with perfect attendance will earn 20 points of extra credit.

Special Needs

If you require special needs (health or disability related issues), please contact me to discuss a plan for meeting those needs. If you are in DSP&S and wish to use their testing services, please provide me with the appropriate form.

Ethical Conduct

Cheating will not be tolerated. Any student caught cheating on any exam or quiz will receive 0 points for that test and possibly a grade of F for the course.

Disruptions

Please turn your cell phone to vibrate or silent. Do not answer your cell phone or text during class. Do not talk during class. If you are too disruptive in class (excessive talking, repeatedly leaving the class to answer your phone, etc.), I may ask you to leave the class.

Disclaimer

The instructor reserves the right to alter this syllabus to conform to Los Rios Community College District Policies, state law, or to improve the quality of education offered by the class. Any changes will be announced in class.

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Tentative Schedule

Kristin Lui
American River College

Week	Monday	Tuesday	Wednesday	Thursday
1	June 14	June 15	June 16	June 17
	Sec. 1.1, 1.2	Sec. 1.3	Sec. 2.1, 2.2	Sec. 2.3, 2.4
2	June 21	June 22	June 23	June 24
	Sec. 2.5, 3.1	Sec. 3.2, 3.3	Review	EXAM 1
3	June 28	June 29	June 30	July 1
	Sec. 4.1	Section 4.2, 4.3	Section 4.4	Section 4.5
4	July 5	July 6	July 7	July 8
	NO CLASS	Section 4.6, 4.7	Section 4.8, 4.9	Section 5.1
5	July 12	July 13	July 14	July 15
	Section 5.2	Review	EXAM 2	Section 6.1
6	July 19	July 20	July 21	July 22
	Section 6.2, 6.3	Section 7.1, 7.2	Section 7.3, 7.4	Section 7.6
7	July 26	July 27	July 28	July 29
	Section 8.1	Section 8.2	Section 8.3, 8.4	Review
8	August 2	August 3	August 4	August 5
	EXAM 3	Review	Review	FINAL EXAM