INTRODUCTION TO DIFFERENTIAL EQUATIONS: MATH 254: SECTIONS 001 - 009 SYLLABUS

FALL 2011

Instructor:	**Office:**	**Office Hours:**	**Phone:**
Robert Sims	Math 610	T 10:00 - 11:00 am R 10:00 - 11:00 am	626-1990

My e-mail address is: rsims@math.arizona.edu
The course website is: http://math.arizona.edu/ rsims/ma254/ma254.html
Material will also be available at the D2L site.

1. **Textbook:**

The required textbook for this course is:
Fundamentals of Differential Equations (Eighth Edition) by R. Nagle, E. Saff, and A. Snider.
There should be a non-hard back version available at the bookstore.

2. **Attendance:**

The main lectures for this course will be held on Tuesdays and Thursdays in **HARV 150** from 2:00-3:15PM. In addition to the main lectures, there are smaller recitation sessions the meet once weekly. Students are expected to attend each of the main lectures and their recitation sections. In addition, students are expected to be familiar with the University Class Attendance policy as it appears in the General Catalog. It is the students responsibility to keep informed of any announcements, syllabus adjustments or policy changes made during scheduled classes. Moreover, students are expected to behave in accordance with the Student Code of Conduct and the Code of Academic Integrity. The guiding principle of academic integrity is that a student's submitted work must be the student's own. University policies can be found at http://deanofstudents.arizona.edu/uapolicies.

3. **Recitation Sections:**

As indicated above, attendance is required at the recitation sections. During these sessions, students will be able to ask questions about course material and a number of homework problems will be discussed in detail. In addition, written quizzes will be given in these recitation sessions. This semester, the recitation instructors are as follows:

Instructor:	**Sections:**	**Email:**	**Office:**
Yuan Tao	1, 2, 5	ytao@math.arizona.edu	Math 320
Jun Wang	3, 7, 9	jwang@math.arizona.edu	Math 614
Kevin Powell	4, 6, 8	kpowell@math.arizona.edu	Math 613

4. **Grades:**

The grades for this course will come from several sources. Here is a brief description.

Item	**Date**	**Points Available**
Review Test	Jan. 28	50 points
Exam 1	Feb. 18	100 points
Exam 2	Apr. 1	100 points
Exam 3	May 1	100 points
Final Exam	May 13	200 points
Quizzes/Written Homework	Weekly	50 points
WebAssign	Weekly	50 points
Total		**650 points**

Your grade in the course will be determined by the above points. Final letter grades will be no lower than:

$585 \leq$ points ≤ 650	90% to 100%	A
$520 \leq$ points ≤ 584	80% to 90%	B
$455 \leq$ points ≤ 519	70% to 80%	C
$390 \leq$ points ≤ 454	60% to 70%	D
$0 \leq$ points ≤ 389	0% to 60%	E

5. **Review Test:**

On Monday January 28, there will be a 30 minute review test worth 50 points of your total grade. This review test will cover some basic background material from algebra and calculus. The content of this exam consists of some important prerequisites for this course. I will provide a review sheet online describing topics and sample questions. To do well in this course, basic skills in algebra and calculus are crucial. No calculators or integration tables are allowed on the review test.

6. **Homework and Quizzes:**

Homework will be submitted in two formats throughout the semester. A on-line homework program called WebAssign will be used for many problems like those assigned from the text; more information on this below. WebAssign will be 50 points of your final grade.

Hand-written solutions to certain homework problems will be submitted to your TA during your recitation section. (Make sure you put your name, your TA's name, and your section number on each submitted assignment.) These problems will either come from the text or from a set of problems created by your instructor. Your lowest two homework scores will be dropped. In this case, there will be no make-up homework. (Each missed homework counts as a zero).

In addition, there will be weekly quizzes in your recitation sections. The lowest two quiz scores will be dropped. In this case, there will be no make-up quizzes. (Each missed quiz counts as a zero).

Hand-written homework and weekly quizzes contribute to a total of 50 points of your grade.

7. **In-Class Exams:**

There will be three in-class exams tentatively scheduled for Tuesday February 18, Tuesday April 1, and Thursday May 1. Each exam will be worth 100 points. There will be no make-up exams. If you miss one exam with a valid dean's excuse or a doctor's valid medical excuse, that exam grade will be determined by 1/2 your grade on the final. All other missed exams will receive a 0.

8. **Final:**

The final exam is scheduled for Tuesday, May 13th from 1:00 to 3:00 PM. It is worth 200 points.

9. **WebAssign:**

As indicated above, an online homework program called WebAssign will be used for problems assigned from the text. You are required to obtain a WebAssign account. It is convenient if you use your NetID to sign up. To create such an account for our class go to http://webassign.net, click on the Log-In button, and then click on the I Have a Class Key button. The class key for each section is given below. You must create an account for this class, even if you have used WebAssign in the past or are using it for another course this semester. There is a 7-day grace period (from the first day of classes) before you must purchase/ submit your access code for our class.

Section	**Class Key**
001	**arizona 3840 2707**
002	**arizona 7955 8163**
003	**arizona 2298 9153**
004	**arizona 9529 4926**
005	**arizona 6617 9732**
006	**arizona 8833 8826**
007	**arizona 7822 5930**
008	**arizona 6037 9716**
009	**arizona 5055 0538**

10. **Office Hours and Tutoring:**

Each of the TAs and I will hold office hours this semester. You are welcomed and encouraged to attend any office hours convenient to your schedule.

(1) Robert Sims: I will hold office hours in Math 610 from 10:00 AM to 11:00 AM on Tuesdays and Thursdays.
(2) Yuan Tao: Yuan will hold office hours in Math 320 from 5:00 PM to 6:00 PM on Mondays and Thursdays .
(3) Jun Wang: Jun will hold office hours in Math 614 from 5:00 PM to 6:00 PM on Wednesdays and Fridays.
(4) Kevin Powell: Kevin will hold office hours in Math 613 from 12:00 PM to 1:00 PM on Mondays and from 10:00 AM to 11:00 AM on Wednesdays.

11. **Students with disabilities:**

If you anticipate issues related to the format or requirements of this course, please meet with your instructor to discuss ways to ensure your full participation in the course. If you determine that formal, disability-related accommodations are necessary, it is very important that you be registered with Disability Resources (621-3268; drc.arizona.edu).You should notify your instructor of your eligibility for reasonable accommodations by Friday, January 24.You and your instructor can then plan how best to coordinate your accommodations.

12. **Students withdrawing from the course:**

If you withdraw from the course by February 11, the course will be deleted from your enrollment record. If you withdraw from the course by March 11, you will receive a grade of W. The University allows withdraws after March 11, but only with the Deans signature. Late withdraws will be dealt with on a case by case basis, and requests for late withdraw with a W without a valid reason may or may not be honored.

13. **Incompletes:**

The grade of I will be awarded if **all** of the following conditions are met:

(1) The student has completed all but a small portion of the required work.
(2) The student has scored at least 50% on the work completed.

(3) The student has a valid reason for not completing the course on time.
(4) The student agrees to make up the material in a short period of time.
(5) The student asks for the incomplete before grades are due; at most 48 hours after the final exam.

14. **Calculator and Computer Policy:**

Calculators will be allowed on all exams and quizzes, however, laptop computers may not be used on either. On many homework problems you will need a graphing calculator or computer. Some problems may even require the use of specific software packages, but if so, we will make sure they are accessible on standard systems and at no additional cost to you. We will heavily use the java enabled version of pplane and winplot which you can download for free.

15. **Computing Resources:**

Information about using computers on campus, setting up a UA email account, and computer support can be found at http://www.oscr.arizona.edu. A list and map of open access computing facilities on campus can be found at http://www.oscr.arizona.edu/maps.