

## Mathematics 495/595 Spring 2008

Professor: Dr. Maria Fung

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Office: AA 305

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### CLASS MEETS

4:30-6:30 p.m. on M and W in AA 104

### Dr. Fung's **OFFICE HOURS & SCHEDULE**

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:15-9:30	Prep	Math 338	Prep	Math 338	Prep
10 – 11	<b>Math 280</b>	<i>Office Hour</i>	<b>Math 280</b>		<b>Math 280</b>
11 – 12					
12 – 1	<i>Office Hour</i>		<i>Office Hour</i>		<i>Office Hour</i>
1 – 2					
2 – 3	<i>Office Hour</i>				
3 – 4					
4:00-5:50	<b>Math 495/595</b>		<b>Math 495/595</b>		

**Office hours** are for you, so please do come to introduce yourself in more detail to me and feel free to drop by for help. At times other than my listed office hours you are welcome and encouraged to call or email me with questions about the course. If you have direct scheduling conflicts with my office hours and would like further help, please let me know.

**Overview:** During this term we will explore the foundational calculus concepts of differentiation and integration, examples of their applications and the relationship between these two processes. Visual and hands-on methods will be emphasized throughout. Readings and exercises will come from either an adaptation of William Priestley's out-of-print book *Calculus: An Historical Approach* or this book itself.

### **Learning Objectives and Goals:**

- Build upon and expand your understanding of algebra and how it can be developed into higher mathematics (calculus)
- Contemplate and reflect on what middle-school learners need to understand, be able to do and believe about themselves in the areas of

algebra and geometry to be prepared for high school and college level mathematics

- Develop teaching and learning insights through weekly assignments and explorations

**Course Requirements and Grading:** Your grade will be determined as follows:

1. Weekly Assignments (30%)
2. Attendance and Participation (20%)
3. Final Project (20%)
4. Exams ( $2 \times 15\% = 30\%$ )

1. **Weekly Assignments** will be collected every week on Mondays and graded. I will be looking for evidence of the thought process you went through to arrive at your solution. Short answers with no explanations will receive no credit. Try not to wait till the last minute to complete your assignment, instead give yourself enough time to really think about each problem.

2. **Attendance and Participation** means not only being in class, but also being prepared by completing assignments, sharing your thoughts and strategies both in small groups and with the whole class. If you miss a class, please try to make up the work by contacting me or a classmate. Normally, points cannot be made up for missed classes unless there are extraordinary circumstances.

3. The **Final Project** will be assigned towards the end of the term and it will consist of creating lesson plans and activities using the ideas of Calculus for the middle school classroom. Details will be provided later in the term.

4. There will be **two exams**, a take-home midterm exam and a take-home final exam.

**Late Work Policy:** There is a 20% penalty for work turned in after its due date, each week past the due date adds another 20%.

**Final Grade Policy:** All points are assigned based on the completeness of the requirement as well as the QUALITY of your analytical thinking and writing.

## LEARNING DISABILITIES

If you have a documented learning disability, please talk to me **during the first few days of class**, I will be more than happy to accommodate you in any way that I can. You must go to the Office of Disability Services (ODS) for appropriate coordination of your accommodations. You can go by APSC 405 or contact ODS at (503) 838-8250 to schedule an appointment.

## INCOMPLETE POLICY

If you are passing this course and have a documented reason for not being able to complete the course, I may be able to grant you an incomplete. You must obtain my agreement if you wish to have a grade of incomplete recorded.

## STANDARD GRADING SCALE FOR THIS COURSE

**(Total % for the course, usual rounding rules apply)**

%	Grade	%	Grade	%	Grade	%	Grade	%	Grade
93 – 100	A	90 – 92	A-	87 – 89	B+	83 – 86	B	80 – 82	B-
%	Grade	%	Grade	%	Grade	%	Grade	%	Grade
77 – 79	C+	73 – 76	C	70 – 72	C-	60 – 69	D	Below 60	F