Mathematics 430 Fall 2007

Professor: Dr. Maria Fung Office: AA 305 Phone: 503-838-8871 Email: fungm@wou.edu

CLASS MEETS

9-9:50 p.m. in AA 202

Monday, Wednesday & Friday

Dr. Fung's OFFICE HOURS & SCHEDULE

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Math 430		Math 430		Math 430
10-11	Office Hour		Office Hour		
		Math 211		Usually	Office Hour
11-12	Math 211		Math 211	not	Math 211
12 - 1	Lunch	Office Hour		on	Lunch
			Math 396	campus	
1 - 2	Math 396				Math 396
2 - 3	Office Hour		Grading		Office Hour

<u>Office hours</u> 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 or make a special appointment to see me.

PREREQUISITES: Consent of instructor.

REQUIRED COURSE MATERIALS:

"Ideals, Varieties, and Algorithms an Introduction to Computational Algebraic Geometry and Commutative Algebra", Third Edition, Springer, by David Cox, John Little, and Donal O'Shea

CLASS WEB PAGE

There will be a link for the Math 482 web page on my home page: <u>http://www.wou.edu/~fungm</u>

COURSE PURPOSE and CONTENT

In this course mathematics majors and minors will:

- experience selected topics in the theory of affine varieties and polynomial rigns
- ✤ get familiar with Groebner Bases, foundations of elimination theory, and Hilbert's Nullstellensatz
- ✤ focus on deep thinking, effective reasoning and communication, and mathematical growth
- ✤ reflect on the connections between algebra and geometry

COURSE STRUCTURE

Class will be a mix of lecture with discussion and problem solving sessions. You will be expected to stay active and participate in the learning process. Please bring your text to class every day!

ATTENDANCE

Daily attendance is required for your success in this course. If you miss class it is your responsibility to ask a classmate about what you have missed. I will not have discussion notes available if you have missed class nor will I repeat my discussion during office hours

HOMEWORK

- Homework from our textbook and occasionally from other sources will be assigned on a daily basis and will be due on Mondays. Completing your homework in a timely fashion will be integral to your success in this course.
- Homework assignments will be scored according to the following scoring rubric:

6	Enhanced and correct
5	Thoroughly developed and correct
4	Complete and correct (with perhaps a very small error)
3	Partially complete or partially effective or partially correct
2	Under-developed, sketchy, or wrong
1	Ineffective, minimal, or wrong
0	Missing

FINAL PROJECT

You will be assigned to do a group final project in this course. This project will focus on a topic that we have not covered in the class.

COURSE GRADING

Homework Assignments	40% of course grade
Final Project and Presentation	20% of course grade
Class Participation	10% of course grade
Exams (Midterm and Final: 2x15%)	30% of course grade

CLASS PARTICIPATION

This will include posing and answering questions, working in groups on assigned problems and tasks, etc. You will be expected to stay active throughout and participate fully in all activities.

READINGS

Reading each assigned section of the textbook before coming to class is mandatory. You will be required to do reading and write/answer questions on the assigned reading material. You will also be expected to work on problems based on the readings in class.

TENTATIVE SCHEDULE

We will attempt to get through most of the material in our textbook.

LATE WORK POLICY

Your work is due by 4 p.m. on the due date. All due items may be turned in, unexcused, 1 class day late (by 12 noon) for 75% credit or 2 class days (by 12 noon) late for 50% credit. Any item turned in after 4 p.m. on a due date will be considered late.

LEARNING DISABILITIES

If you have a documented learning disability, please talk to me **during the 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

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

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