

MATH 494 SYLLABUS: FALL 2019
GEOMETRY FOR MIDDLE SCHOOL TEACHERS

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OFFICE HOURS & SCHEDULE					Fall 2019
	Monday	Tuesday	Wednesday	Thursday	Friday
9:00	Math Dept Meeting				
10:00					Available by appointment
11:00					
12:00		Office Hour MNB 125		Office Hour MNB 125	
1:00		Office Hour MNB 125		Office Hour MNB 125	
2:00		MTH 393		MTH 393	
3:00	Unavailable	MNB 103	Unavailable	MNB 103	
4:00	MTH 494/594	Unavailable	MTH 494/594	Unavailable	
5:00	MNB 103	Unavailable	MNB 110	Unavailable	
Online	MTH 616				

Please feel free to drop by my office during my office hours for help. You do not need to make an appointment to come to office hours. 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 an appointment to come in. If you have direct scheduling conflicts with my office hours and would like further help, please let me know.

COURSE PREREQUISITE

- Prerequisite: Math 396 with a grade of C- or better

REQUIRED COURSE MATERIALS

- Download and print materials from Moodle
- Any basic calculator, a Ruler, a Compass, a Protractor
- 3-ring binder & dividers

GSP 5 ACCESS

- All WOU students can access the WOU Network version of GSP by logging on to your Portal and using the WOUVDI—see your 494.594 class Moodle page for access information.

COURSE OVERVIEW

In this class we will explore geometry concepts beyond your initial study in MTH 213. There will be hands on exploration activities and exploration-based Geometer Sketchpad labs. In general, we will familiarize ourselves with geometry curricula and current standards upheld by NCTM, OCTM and CCSSM.

COURSE GOALS

1. Demonstrate the ability to provide accurate explanations of information presented in mathematical forms
2. Demonstrate the ability to draw reasonable and appropriately qualified conclusions from geometric structures
3. Demonstrate effective written communication of mathematical concepts
4. Develop an understanding of how various topics in measurement and geometry relate to elementary and middle level mathematics

LEARNING OBJECTIVES

In this course you will

- Build upon and expand your understanding of geometry and how it can be developed into higher mathematical analysis
- Contemplate and reflect on what middle-school learners need to understand in terms of geometry and measurement
- Develop teaching and learning insights through weekly assignments and explorations

CLASS WEB PAGE AND CLASS MOODLE PAGE

There will be a link for the MTH 494 and MTH 594 web page on my home page: <http://www.wou.edu/~ciancetm>. You will find a link to the WOU Online system, Moodle (<https://moodle.wou.edu>). The MTH 494 Moodle page is where your class materials and assignments will be posted. Note that there is a Moodle link at the top of most WOU homepages as well as a Moodle link in your Portal.

COURSE REQUIREMENTS AND GRADING

Undergraduate Students (Math 494)

1. Homework, articles, quizzes, class-work, projects, labs (45%)
2. Midterm Exam (25%)
3. Final Exam (25%)
4. Final Project (5%)

Attendance, Participation and Completion of Course Materials

Attendance & Participation in this course means

- You must attend all classes
- You must share your thoughts and strategies both in small groups and with the whole class
- You must work actively and effectively during all group and all class activities
- You must attentively listen and offer useful and constructive comments to other students in the class during group work and when other students present their ideas to the whole class
- If you miss a class, review the course web pages and complete missed work.

Completing Course Materials in this course means

- You have carefully answered all questions and problems posed on all course materials
- You have organized all course materials carefully in your course notebook and are prepared to share your work at any time

Homework Assignments

- A **homework set** will be assigned almost every week. Each question will be carefully graded.
- Occasionally you will turn in work completed in class for a grade.
- You will read several journal articles and complete related activities and reflections for each. **Additional readings** may be assigned.
- Brief **Moodle quizzes** will be assigned and completed on line.

All homework assignments, quizzes and due dates will be posted on your course Moodle page. See the course **Homework Policy** (in Moodle) for information about writing up homework. In general, this is a no work, no credit class. You will need time to think about the homework in this course; schedule your study and homework time accordingly.

Projects & GSP Labs

Seven Projects/GSP labs will be assigned throughout the term. You will be expected to write up your explorations, conjectures, and conclusions in a way that a fellow classmate could follow and learn from. Details regarding each Project or GSP lab are provided in Moodle.

Midterm and Final Exam

There will be an in-class midterm exam and an in-class final exam in this course. Graduate students will be assigned additional problems on both exams. See your course Moodle page for exam dates.

Final Project

Undergraduate and graduate students will complete final projects towards the end of the term. The projects will consist of researching a new geometry topic, writing a short paper and lesson plan on the topic and giving a brief presentation during the last week of class. Undergraduate students will complete one topic and graduate students will complete two topics. Complete directions are included in your Moodle final project section.

LATE POLICY

Generally, a 20% deduction per turn in day (TR) for written HW assignments and for GSP Labs. See the course **Homework Policy** and **GSP Directions** for further details. No notification is required to turn work in late. It is reasonable to expect that each of us may turn in one or two items a term one or two turn in days late. This should not have a large impact on your overall course grade. Excessively turning in work late will have a very strong impact on your overall course grade.

EXCUSED LATE WORK

Excused late work will only be accepted or available unless you have i) a documented emergency filed by using the Student Absence Notification System (see <http://www.wou.edu/advising/absence>) and my agreement, **or** ii) a documented University Sanctioned Absence from class which you have reviewed with me, and devised a plan for, in advance of the absence. Prior notification and my agreement **are required**. Ordinary illness of one or two class days does not count as a documented emergency, even if you have a note from a doctor.

You may always turn in your *Written Homework* early or scan/photo it and email it.

STANDARD GRADING SCALE FOR THIS COURSE

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

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

WOU STUDENT SUCCESS SPECIALIST

If the instructor determines your performance in this class is placing you at academic risk, you may be referred to a member of the Student Success Team. A student success specialist will offer to work with you to address issues and develop a student success strategy. Regardless of whether a referral has or has not been made, you are ultimately responsible for tracking your own progress in this course. If you would like to meet with a student success specialist regarding any academic struggles you are experiencing, please contact the Academic Advising and Learning Center at 503-838-8428.

CELL PHONE POLICY¹

- Turn them off (not even on vibrate) during class
- Put them away—cell phones found out in class will be placed on the front table for the rest of the class.
- No texting during class
- Electronic item use during exams or quizzes will be treated as cheating and you will receive a zero score on that exam or quiz.

¹If you are in an emergency situation in which you need to have your cell phone on quiet; please speak to your professor about it before class.

YOUR STUDENT WOU EMAIL ACCOUNT

All official university and class business will be directed to your WOU student email account. If you do not regularly check this account, please log in to this account and FORWARD your WOU email to an account that you do regularly access.

FOOD AND BEVERAGES IN THE CLASSROOM

You are welcome to have unobtrusive snacks in the classroom that leave you entirely free to fully participate in the class. Food items that smell (such as fast food), that you eat with silverware or that need peeling, etc. are distracting and

should be consumed prior to or after class. You are welcome to have beverages.
NO FOOD OR BEVERAGES IN THE COMPUTER ROOM.

APPROPRIATE CLASSROOM BEHAVIOR

You are ultimately responsible for your own attendance and performance. Disruptive classroom behavior of any kind, such as talking during lecture or consistently coming to class late etc., is not appropriate. Proscribed Conduct for all students is described in the University Catalog. In particular for this course any student found cheating on an exam or copying from another student's exam paper will receive a zero score on that exam and a report of this activity will be sent to the Student Affairs office.

VETERANS AND ACTIVE MILITARY PERSONNEL

Students with special circumstances are welcome and encouraged to communicate these, in advance if possible, to the instructor. For WOU Veteran resources; please see <http://wou.edu/veterans/>.

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. If you have a documented disability, which requires any academic accommodations, you must go to the Office of Disability Services (ODS) for appropriate coordination of your accommodations. You can drop by APSC 405 or contact ODS at (503) 838-8250 (V,TTY) to schedule an appointment. To set up an *Accommodations Contract*, please bring a laptop with wireless access to my office hours to log into your personal AIM account and set up the contract. If you don't own a laptop with wireless access, please contact ODS for assistance.

STUDENT HEALTH

Students needing medical or mental health care can access the Student Health and Counseling Center on line at <http://www.wou.edu/health/>, emailing at health@wou.edu, or by walking in to schedule an appointment or by calling: **Medical Services** (503) 838.8313; **Counseling Services** (503) 838.8396

INCOMPLETE POLICY

An Incomplete can only be granted for a student who is passing a class and has a documented emergency that prevents them from completing a very small portion of the course (e.g., the final exam), after Friday of the seventh week of class, which is the last day for dropping a course with W grade.