

Marshall University
Math 491: Senior Seminar

Course Title/Number	MTH 491 (CRN: 4095) <i>Senior Seminar</i>
Semester/Year	Spring 2016
Days/Time	MW 10-10:50 AM
Location	Smith Hall 513
Instructor	Dr. Elizabeth Niese
Office	Smith Hall 721
Phone	(304)696-3609
Email	niese@marshall.edu Please include your name and subject line MTH 491 in your email.
Office/Hours	Mondays& Wednesdays 9:00 AM - 10:00 AM, Tuesdays 9:00 AM - 10:30 AM, Fridays 1:00 PM-2:30 PM If you can't make my scheduled office hours, please make an appointment for another time. To make an appointment, please email 24 hours in advance when possible.
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to http://www.marshall.edu/academic-affairs and clicking on "Marshall University Policies. Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802 Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Description: MTH 491 - Senior Seminar

Capstone experience in reading, doing, writing and speaking mathematics. Students will explore topics related to a theme chosen by the instructor. (PR: Permission). 2 hours

Course Webpage

All important course information will be posted on our class MUOnline page. Assignments will be posted on and submitted through overleaf.com

Required Texts: None

Technology

Cell phones may not be used in class for texting or other social media. We will frequently use computers during class time for research and writing. Computers will be provided, or you may bring your own laptop if you prefer.

Student Learning Outcomes for this course	How students will practice each outcome in this course	How student achievement of each outcome will be assessed in this course
Students will improve written and oral communication skills with respect to mathematics	In class activities, Homework	Capstone paper, poster presentation
Students will improve ability to reason rigorously in mathematical arguments	In class activities, Homework	Capstone paper, poster presentation
Students will develop ability to undertake independent work	In class activities, Homework	Capstone paper, poster presentation
Students will advance their level of critical sophistication	In class activities, Homework	Capstone paper, poster presentation
Students will gain perspective on interplay of applications, problem-solving, and theory	In class activities, Homework	Capstone paper, poster presentation
Students will conduct research and make oral and written presentations on various topics	In class activities, Homework	Capstone paper, poster presentation

Course Requirements:

Homework and In-class Work: Homework assignments will be posted on our class MUOnline page and should be submitted there.

- Reading & writing mathematics (3 assignments - 10 Points each)
- Research proposal (10 Points)
- Annotated Bibliography (10 Points)
- Class discussion on AMS statement of ethics (10 Points)
- Major Field Test (20 Points)

Quality rough drafts are important – **no significant changes from the previous draft will count as no submission.**

Capstone paper: You will present the results of your capstone research in a paper of at least 10 pages, written in the typesetting program L^AT_EX (using overleaf.com). Your research paper is due **Monday, May 2, by 5:00pm**. Please submit the .tex file, along with any other necessary files (graphics, etc), electronically to overleaf.com.

Capstone poster: You will present the results of your capstone research in a poster. Your poster is due electronically, in pdf format, on **Wednesday, April 20**, one academic week prior to the poster presentation.

The poster session will be **Wednesday, April 27, 4:00 - 5:00pm**. Please mark this date and time on your calendar today!

External judges: The poster presentation will be reviewed by external judges and the instructor. The results of the judges' scores will contribute to your final grade.

Grading Policy

All drafts of your paper and poster will be submitted on-line and each will be checked for plagiarism. Any student who has any plagiarism on any draft will receive a 0 on the assignment and Academic Affairs will be notified.

Assignment	Points	Final Grade, Percent	Letter Grade
Homework	80	90 - 100	A
Paper	145	80 - 89	B
Poster	130	70 - 79	C
		60 - 69	D
		0 - 59	F

Attendance Policy:

Attendance at all scheduled class times is expected. Late work will only be accepted in the event of an excused absence.

Major Due Dates

Week 2	Jan 20	Writing Assignment #1
Week 3	Jan 27	Research Proposal, Writing Assignment #2
Week 4	Feb 3	Writing Assignment #3
Week 5	Feb 10	Annotated Bibliography
Week 7	Feb 24	4+ Page Draft of paper
Week 8	Feb 29& Mar 2	Major Field Test
Week 10	Mar 16	7+ Page Draft of Paper
Week 11	Mar 30	First draft of Poster
Week 13	Apr 13	Complete draft of paper and poster due
Week 14	Apr 20	Poster due
Week 15	Apr 27	Poster Presentation - 4pm
Finals Week	May 2	Paper due - 5 pm

Paper Recommended and Required Lengths

Week 5	Feb 10	Recommended 2+ pages
Week 6	Feb 17	Recommended 3+ pages
Week 7	Feb 24	Required: 4+ pages
Week 8	Mar 2	Recommended 5+ pages
Week 9	Mar 9	Recommended 6+ pages
Week 10	Mar 16	Required: 7+ pages
Week 11	Mar 30	Recommended 8+ pages
Week 12	Apr 6	Recommended 9+ pages
Week 13	Apr 13	Required: 10+ pages