

Course Title/Number	Internship in Mathematics/Senior Seminar MTH 490/491 - Section 201 - CRN 3978/3979 - Credits 2
Semester/Year	Spring 2018
Days/Time	MW 10:00 am - 10:50 am
Location	Smith Hall 513
Instructor	Dr. JiYoon Jung
Office	Smith Hall 742D
Phone	(304)696-3285
Email	jungj@marshall.edu Include your name and subject line MTH 491 in your email.
Office Hours	MWF 01:00 pm - 02:50 pm or by appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by 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:

You will be able to obtain a maximum of 250 points in this class, divided as follows:

- **Homework and In-class Work (50 points):** Homework assignments will be posted on our class MUOnline page and should be submitted there. Quality rough drafts are important (**no significant changes from the previous draft will count as no submission**).

- Reading & Writing mathematics (3 assignments - 5 Points each)
- Research proposal (5 Points)
- Annotated Bibliography (10 Points)
- Class discussion on AMS statement of ethics (10 Points)
- Major Field Test (10 Points)

- **Capstone paper (100 points):** You will present the results of your capstone research in a paper of at least 10 pages, written in the typesetting program \LaTeX (using overleaf.com). Your research paper is due **Wednesday, May 2, by 5:00 pm**. Please submit the .tex file, along with any other necessary files (graphics, etc), electronically via email.

- **Capstone poster (100 points):** You will present the results of your capstone research in a poster. Your poster is due electronically, in pdf format, on **Wednesday, April 11**, two academic weeks prior to the poster presentation. The poster session will be **Wednesday, April 25, 4:00 pm - 5:00 pm**. 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.

The total number of points you earn will be divided by the total number of points possible to determine your final percentage. At the end of the semester, your overall letter grade will be assigned on the following scale:

A: 90 - 100% B: 80 - 89% C: 70 - 79% D: 60 - 69% F: Below 60%

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 17	Writing Assignment #1
Week 3	Jan 24	Research Proposal
Week 4	Jan 29 Jan 31	Writing Assignment #2 Writing Assignment #3
Week 5	Feb 5	Annotated Bibliography
Week 7	Feb 21	4+ Page Draft of Paper
Week 8	Feb 26 Feb 28	Major Field Test Major Field Test
Week 10	Mar 14	7+ Page Draft of Paper
Week 11	Mar 28	Poster Layout
Week 12	Apr 4	Draft of Poster
Week 13	Apr 11	Final Poster Due
Week 14	Apr 18	10+ Page Draft of Paper
Week 15	Apr 25	Poster Presentation (4:00 pm - 5:00 pm)
Finals Week	May 2	Final Paper Due (5:00 pm)

Paper Recommended and Required Lengths:

Week 5	Feb 7	2+ pages Recommended
Week 6	Feb 14	3+ pages Recommended
Week 7	Feb 21	4+ pages Required
Week 8	Feb 28	5+ pages Recommended
Week 9	Mar 7	6+ pages Recommended
Week 10	Mar 14	7+ pages Required
Week 11	Mar 28	8+ pages Recommended
Week 12	Apr 4	9+ pages Recommended
Week 13	Apr 11	(Final Poster Due)
Week 14	Apr 18	10+ pages Required
Week 15	Apr 25	(Poster Presentation)
Final Week	May 2	(Final Paper Due)