

Course Title/Number	Internship in Mathematics/Senior Seminar MTH 490/491 - Section 101 - CRN 3199/3200 - Credits 2
Semester/Year	Fall 2017
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	Monday - Thursday 12:30 pm - 2:00 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 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:

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, December 13, 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, November 15**, two academic weeks prior to the poster presentation. The poster session will be **Wednesday, Dec 6, 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	Aug 30	Writing Assignment #1
Week 3	Sep 6	Research Proposal
Week 4	Sep 11 Sep 13	Writing Assignment #2 Writing Assignment #3
Week 5	Sep 20	Annotated Bibliography
Week 7	Oct 4	4+ Page Draft of Paper
Week 8	Oct 9 Oct 11	Major Field Test Major Field Test
Week 10	Oct 25	7+ Page Draft of Paper
Week 11	Nov 1	Poster Layout
Week 12	Nov 8	Draft of Poster
Week 13	Nov 15	Final Poster Due
Week 14	Nov 29	10+ Page Draft of Paper
Week 15	Dec 6	Poster Presentation (4:00 pm - 5:00 pm)
Finals Week	Dec 13	Final Paper Due (5:00 pm)

Paper Recommended and Required Lengths:

Week 5	Sep 20	2+ pages Recommended
Week 6	Sep 27	3+ pages Recommended
Week 7	Oct 4	4+ pages Required
Week 8	Oct 11	5+ pages Recommended
Week 9	Oct 18	6+ pages Recommended
Week 10	Oct 25	7+ pages Required
Week 11	Nov 1	8+ pages Recommended
Week 12	Nov 8	9+ pages Recommended
Week 13	Nov 15	(Final Poster Due)
Week 14	Nov 29	10+ pages Required
Week 15	Dec 6	(Poster Presentation)
Final Week	Dec 13	(Final Paper Due)