MA 4933/6933: Math Analysis I
Course Syllabus
Fall 2017

Section 01
MWF: 1:00 - 1:50 pm
Allen 411

Instructor: Dr. Matt McBride
Office: Allen 419
Office Phone: 325-7139
Offic Hours: MWF: $10:00 - 11:00$ am or by appointment
Email Address: mmcbride@math.msstate.edu
Website: msm646.math.msstate.edu

Textbook: DePree, J. and Swartz, C.: *Intoduction to Real Analysis*

Prerequisites: Some undergraduate real analysis

Objective: Real analysis is a broad area of mathematics. We will be studying classical tools used in analysis. This is the first part in a two semester sequence. In this class we will focus on metric and topological spaces, compactness in metric and topological spaces, differentiability in normed vector spaces, and some of the mapping theorems.

Withdrawl Date: The last day to drop the course with a W is October 9th.

Student Honor Code: Mississippi State has an approved Honor Code that applies to all students. The code is as follows: "As a Mississippi State University student, I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do." Upon accepting admission to Mississippi State University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor Code. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the MSU community from the requirements or the processes of the Honor Code. For additional information, please visit: http://honorcode.msstate.edu/policy

Students with disabilities: Mississippi State University is committed to providing reasonable accommodation for all students with disabilities. If you require special accommodation in this course you are requested to speak with the instructor as early in the semester as possible. Students with disabilities must be registered with the Office of Student Support Services prior to receiving accommodations in this course. For further information please see `http://www.sss.msstate.edu`.

Title IX: Mississippi State University is committed to complying with Title IX, a federal law that prohibits discrimination, including violence and harassment, based on sex. This means that MSU's educational programs and activities must be free from sex discrimination, sexual harassment, and other forms of sexual misconduct. If you or someone you know has experienced sex discrimination, sexual violence and/or harassment by any member of the university community, you are encouraged to report the conduct to MSU's Director of Title IX/EEO Programs at 325-8124 or by email to titleix@msstate.edu. Additional resources are available at `http://www.msstate.edu/web/security` or at `http://students.msstate.edu/sexualmisconduct/`.

Homework: As with any math course, homework is a vital component. One must practice newly learned facts, theorems, etc. through the assigned homework. Homework will be assigned more or less daily, however it will be collected only once a week except during the midterm exam week. See the schedule for details.

Exams: There will be one closed book, closed notes, and closed homework midterm exam during the **week of October 9th**. Students will have three hours to take the exam and we will arrange a time during that week that fits everyone's schedule. It will cover chapters 19-23.

Final Exam: The final exam is **not** a comprehensive exam and will be held on **Thursday, December 7th** in the usual class location at **3:00 - 6:00 pm**. This date can **not** be modified, so make sure one's calendar is free. It will cover chapters 24 - 30.

Make-up Policy: Make-up exams will be given **only** for reasons deemed acceptable by the instructor, and **only** with written documentation. Make-up exams must be taken within one week of the original date, and no make-ups may be taken after the final exam. Make-up exams are never easier than the original.

Grading Distribution:

Homework.................50%
Midterm Exam..........25%
Final Exam...............25%
Total......................100%

Grading Scale:

A:....100% - 90%
B:......89% - 80%
C:......79% - 70%
D:......69% - 60%
F:......59% and below

Fall 2017 Tentative Schedule

Note: this may be modified and is left to the discretion of the instructor.

Date	Chapter Covered/ HW Due	Homework Assigned
Wed, Aug. 16	19	none
Fri, Aug. 18	19	none
Mon, Aug. 21	19	none
Wed, Aug. 23	19	**Chp 19:** 7,8,11,15,25,32
Fri, Aug. 25	20	none
Mon, Aug. 28	20	none
Wed, Aug. 30	20	**Chp 20:** 2,7,12,13,22,24,27,28
Fri, Sept. 1	21 (**Chp 19 due**)	none
Wed, Sept. 6	21	none
Fri, Sept. 8	21	none
Mon, Sept. 11	21	none
Wed, Sept. 13	21	none
Fri, Sept. 15	21 (**Chp 20 due**)	**Chp 21:** 3,4,9,10,22,26,29,39
Mon, Sept. 18	22	none
Wed, Sept. 20	22	none
Fri, Sept. 22	22	**Chp 22:** 7,11,12,19,26,27
Mon, Sept. 25	23	none
Wed, Sept. 27	23	none
Fri, Sept. 29	23 (**Chp 21 due**)	**Chp 23:** 1,6,8,9,10
Mon, Oct. 2	24	none
Wed, Oct. 4	24	none

Date	Chapter Covered/ HW Due	Homework Assigned
Mon, Oct. 9	24	**Chp 24:** 1,2,8,9
Wed, Oct. 11	25	none
Fri, Oct. 13	25	none
Mon, Oct. 16	25	none
Wed, Oct. 18	25	**Chp 25:** 4,5,6,10,21,27
Fri, Oct. 20	26 (**Chp 22, 23 due**)	none
Mon, Oct. 23	26	none
Wed, Oct. 25	26	**Chp 26:** 1,6,8,10,12,14
Fri, Oct. 27	27	none
Mon, Oct. 30	27	none
Wed, Nov. 1	27	**Chp 27:** 3,4,7,10,15,17
Fri, Nov. 3	28 (**Chp 24, 25 due**)	none
Mon, Nov. 6	28	**Chp 28:** 1,5,6,7
Wed, Nov. 8	29	none
Fri, Nov. 10	29	none
Mon, Nov. 13	29	none
Wed, Nov. 15	29	none
Fri, Nov. 17	29 (**Chp 26, 27, 28 due**)	**Chp 29:** 1,8,9,17,18,23
Mon, Nov. 20	30	none
Mon, Nov. 27	30	none
Wed, Nov. 29	30	**Chp 30:** 1,2,3,5,6,9
Thu, Dec. 7	**Final Exam (29, 30 due)** **3:00-6:00pm in Allen 411**	none