



# Syllabus for Math 754

## Theory of Functions of Real Variables II

### Spring 2017

**Instructor:** Jeremy Clark

**Office Location:** 306 Hume Hall

**Email:** jeremy@olemiss.edu

**Office Hours:** 10:15-11:15 on MW

**Phone:** (662) 915-7065

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**Lecture Time/Place:** We meet MW 8-9:15 in Hume 331.

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**Textbook:** *Real Analysis*, 3<sup>rd</sup> (or 4<sup>th</sup>) edition, by H.L. Royden (and P.M. Fitzpatrick)

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**Course Content:** This is the second semester course on graduate real analysis. We will begin with a generalized theory of measure and integration and move on to some basic results for linear operators on Banach spaces.

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**Grading Scheme:** There will be a total of 500 ( $2 \times 100 + 5 \times 20 + 200$ ) possible points with the following breakdown:

- 2 midterm exams worth 100 points each.
- 5 homework assignments are worth a total of 100 points.
- The final exam is worth 200 points.

If the percentage score you earn on the final is higher than your lowest midterm score, then your lowest midterm will be dropped and the final counted out of 300 points. **Missed exams** will receive a **zero score** and cannot be made up.

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Your final letter grade in the course will be related to your percentage score as follows:

A	93-100%	B	83-87%	C	70-77%
A-	90-93%	B-	80-83%	D	60-70%
B+	87-90%	C+	77-80%	F	< 60%

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**Attendance:** There will be point penalties for missing more than four lectures.

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**Homework:** There will be a total of 5 homeworks, with two pertaining to the content of each midterm exam.





**Important Dates:**

**Midterms:** Wednesday 3/01 and Monday 4/24

**Final:** Monday, May 8<sup>th</sup> at 8am

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**Tentative Schedule**

Weekly Date Range	Monday	Wednesday
1/23 → 1/27	Ch. 11	Ch. 11
1/30 → 2/3	Ch. 11	Ch. 11
2/6 → 2/10	Ch. 11	Ch. 11
2/13 → 2/17	Ch. 12	Ch. 12
2/20 → 2/24	Ch. 12	Ch. 12
2/27 → 3/3	Ch. 12	<b>Exam #1</b>
3/6 → 3/10	Ch. 12	Ch. 12
3/13 → 3/17	No class	No class
3/20 → 3/24	Ch. 6	Ch. 6
3/27 → 3/31	Ch. 6	Ch. 6
4/3 → 4/7	Ch. 10	Ch. 10
4/10 → 4/14	Ch. 10	Ch. 10
4/17 → 4/21	Ch. 10	Ch. 10
4/24 → 4/28	<b>Exam #2</b>	TBA
5/1 → 5/5	TBA	TBA
5/8 → 5/12	<b>The Final</b>	

