Math 305: Foundations of Mathematics, Fall 2019  
Meeting Times: TTh 9:30am - 10:45am, JAC 111 DL

Instructor: Professor Micah B. Milinovich  
Office: Hume 304  
Office Hours: TTh 10:45am–11:15am in JAC  
TTh 2:30pm–3:30pm in Hume 304  
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Materials


This is an old edition of this textbook. A FREE eBook can easily be found online.

Course Content and Goals

The main goal of Math 305 is to develop your skill in constructing and writing rigorous mathematical proofs. Logical, step-by-step proofs are at the heart of modern mathematics, and an awareness of what is required to construct a complete proof is necessary for reaching higher stages of mathematical knowledge. A second, but closely related, goal of this course is to extend your familiarity with the terms and notation of logic, sets, functions, and proof methods. In practical terms, Math 305 is intended to ease the transition between the abstract, proof-intensive content that is characteristic of upper-division mathematics courses and the relatively mechanical, computation-based content of your calculus courses.

Tests, Quizzes, Homework

1. Homework will be assigned weekly. The homework grade will be typically determined by a short weekly quiz on Thursday with selection of problems taken from the assigned homework. There will not be quizzes on the first week of classes or during the week’s of the midterm examinations.

2. There will be three midterm exams, each counting for 15% of the course grade. Tentative dates on 9/26, 10/24, and 11/21 (all Thursdays).

3. The final exam is comprehensive and counts for 35% of the course grade. It takes place at 8am on Thurs., Dec. 12th.

Grading

There will be three midterm exams, each counting for 15% of the course grade. Homework/Quizzes account for 20% of the course grade. The remaining 35% of the course grade is based upon the comprehensive final exam.

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100%</td>
</tr>
<tr>
<td>A-</td>
<td>90-93%</td>
</tr>
<tr>
<td>B</td>
<td>83-87%</td>
</tr>
<tr>
<td>B-</td>
<td>80-83%</td>
</tr>
<tr>
<td>C</td>
<td>70-77%</td>
</tr>
<tr>
<td>C+</td>
<td>77-80%</td>
</tr>
<tr>
<td>D</td>
<td>60-70%</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60%</td>
</tr>
</tbody>
</table>

I reserve the right to make the grading scale easier.

Additional Policies

Each student is responsible for work missed due to absences. If a test/quiz is missed, a grade of zero will be given. Any person who must miss a scheduled test or quiz because of an official university function must reschedule with the instructor at a time before the test is scheduled to be given. No other rescheduling will be allowed. If asked for by the instructor, official documentation must be provided. The student is required to take the final exam at the time scheduled.

The deadline for course withdrawals is Monday, Oct. 7th.
Academic Needs

It is the responsibility of any student with a disability who requests a reasonable accommodation to contact the Office of Student Disability Services (915-7128). Any request for extended testing time made through that office must be made prior to the date of the test.

Academic Honesty

The following statement is the policy of Department of Mathematics regarding academic honesty: Cheating on any exam, quiz, classwork, or homework, theft of exam questions or possession of exam questions prior to the time for the exam shall all be offenses subject to the appropriate penalties. The penalty for commission of any offense set out above is failure in the course, and subject to the approval of the Chancellor, dismissal or suspension from the university.

Disability Access and Inclusion

The University of Mississippi is committed to the creation of inclusive learning environments for all students. If there are aspects of the instruction or design of this course that result in barriers to your full inclusion and participation, or to accurate assessment of your achievement, please contact the course instructor as soon as possible. Barriers may include, but are not necessarily limited to, timed exams and in-class assignments, difficulty with the acquisition of lecture content, inaccessible web content, and the use of non-captioned or non-transcribed video and audio files. If you are approved through SDS, you must log in to your Rebel Access portal at https://sds.olemiss.edu to request approved accommodations. If you are NOT approved through SDS, you must contact Student Disability Services at 662-915-7128 so the office can: 1. determine your eligibility for accommodations, 2. disseminate to your instructors a Faculty Notification Letter, 3. facilitate the removal of barriers, and 4. ensure you have equal access to the same opportunities for success that are available to all students.