

**MAT237 Test 1 Info**  
**Thursday May 30th, 6:10 - 7:40, MP 202**

1. Please arrive promptly as there will not be extensions for lateness. Please bring your Student ID card, put your coats and backpacks at the front or back of the classroom, and have only your pencils, erasers, and Student ID with you at your chair. No Calculators.
2. As per the course outline, absences will only be excused for medical reasons with a valid medical note (a copy of which can be found on blackboard under Syllabus) provided either electronically to Trefor Bazett, or in person by the end of office hours on Monday, June 3rd. Failure to do so will result in a mark of zero. A make up test 1 will be scheduled, likely on Monday evening, and will be different from the original test.
3. The test covers 1.1-1.7 inclusive, except for the following exclusions: page 32 (Heine-Borel), Exercises 8-12 of 1.5, and points in class identified with "aside", such as the brief discussion of constructing the real numbers from Cauchy sequences. 1.7 will be finished on Tuesday May 28th, but material on 1.8 that will also be discussed on Tuesday will not be on the test.
4. You are recommended to carefully read through the class notes and Folland sections, making sure you understand and can justify every statement. Past test and quizzes posted online should give you a good idea of the types of questions to expect. In addition to knowing the statements of theorems and definitions, and being comfortable applying these (for example to the set of problems in Folland which are strongly recommended), you should also understand the ideas behind the proofs of the theorems and exercises listed in the document on proofs provided on Blackboard. You may be asked to repeat, or slightly modify, these proofs. In addition to my lectures and Folland, the Notes, Maps, and Optional Readings should help you understand the material and how it fits together, and the problems provided from past quizzes and tests, the first problem set, the problem sessions, and the Folland back of the section questions should give you opportunities to test your knowledge practicing solving problems.
5. Test 1 will not just test your ability to find a correct solution, but to provide rigorous and cogent presentations of your solutions and proofs. If you are asked to find something, such as a limit, you are expected to provide a thorough justification of why the limit you have found is indeed the limit, for example. If you are asked to prove a claim, that proof should be rigorous. If you are uncertain what the standards of rigour may be on a particular question, err on the side of being overly rigorous. There is no need to memorize theorem numbers in Folland, citing theorems either by their name (ex Bolzano-Weierstrauss) or their result (ex ...as continuous functions map compact sets to compact sets...) is acceptable.