

Course Description: MATH 3190-001, Introduction to Mathematical Analysis, Spring, 2008

Time and Place: TR 2:00pm-3:15pm, UH4540

Instructor: M. Pettet **Office:** UH 4080A **Email:** mpettet@math.utoledo.edu
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Office Hours: Tentatively TR 3:15pm - 5:00pm or by appointment if necessary.

(However, other commitments (or perhaps student demand) may compel me to alter these hours at some future date.) If you come by my office at some time other than these hours and without an appointment, I can't guarantee that I will be free to help you but I will generally try to do so if I am not too tied up with other things.

Text: *A Transition to Advanced Mathematics, 6th ed.*, Smith/Eggen/St. Andre (Thomson Brooks/Cole)

Prerequisite: Math 1840, 1860 or 1930

Syllabus: I hope to cover most of the first four chapters (i.e. logic and proofs, basic set theory, relations, functions) and, depending on time available, perhaps a few sections from the remaining chapters.

Homework: A selection of homework problems will generally be assigned from each section (and posted on my web page). Homework will be collected every 2 weeks during the Thursday class, beginning January 17. Only a subset of *selected* problems will be graded for mathematical correctness but the apparent completeness and overall quality of the work will also be considered. Many of the problems will involve proofs or explanations and for these, I will expect to see answers clearly written (preferably in ink or, ideally, typed) and expressed in complete, coherent sentences. Most of your grade will be based on mathematical correctness but given that your work is correct, a part of the grade will be based on exposition. Every sentence you write will be interpreted literally so say only what you mean to say. Proofs should be concise and polished. Work that is messy, illegible, ungrammatical, vague or imprecise, unnecessarily verbose or littered with irrelevancies or arguments that lead nowhere will be graded down accordingly.

The problems assigned from each section will not necessarily be the easiest ones so if you are having difficulty, work through some of the simpler problems first. Note that problems marked with a solid star (★) have answers at the back of the text and hints or partial solutions are provided for problems with an open star.

I encourage you to discuss homework problems with each other **but** copying solutions of others or collaboration in the actual writing up of solutions is not acceptable.

Exams: There will be three term tests. (See the bottom of this sheet for tentative dates.) The final examination will be a comprehensive 2-hour exam and must be written at the date, time and place scheduled by the University. (Again, see below.) Simple calculators for routine numerical calculations will be allowed on tests and the final exam. However, programmable or graphing calculators, cell phones, notes, books or other aids will *not* be permitted.

Grading: Your final grade will be based on your total score on the term tests, homework and final exam, with each term test counting 17%, homework counting 17% and the final exam counting 32%. Regular attendance at lectures is expected but attendance will not enter directly into the grade calculation except to the extent that it might influence my decisions about the small "discretionary adjustments" described in the next paragraph.

An overall score of 90% guarantees you an "A", 80% guarantees you at least a "B". 70% guarantees you at least a "C" and 60% guarantees you at least a "D". Some discretionary upward adjustments may be made in cases where the total score falls short of but is very close to a grade cutoff. This is most likely if your score on the final exam is significantly higher than grades you obtained during the term or if your score on one term test seems out of line with your other work. "+" and "-" grades may also be given in such circumstances. However, in most cases, the grade determined by the formula above will be your final course grade.

There is no curve and there are no hidden quotas governing the number of A's, B's, C's, D's or F's that will be awarded.

Policy on Makeups: To be eligible to turn in homework late or make up a missed term test, you must present a compelling reason for your absence. (Simply being unprepared is not a legitimate excuse.) See

www.utoledo.edu/_campus-info/faculty-senate/missed-class-policy.htm

for more details about the kinds of excuses that may be considered valid. Expect to be asked to provide me with documentary evidence (such as a doctor's note) to validate your excuse. You must contact me and make arrangements for the makeup exam at the earliest possible date, preferably by e-mail or phone. (If you have difficulty contacting me, leave a message and your telephone number with the department secretary at 419 530-2568 or slide it under my office door.) Excuses presented more than a few hours after the missed test has taken place (and particularly, those presented after the graded tests have been returned to the rest of the class) will receive especially critical scrutiny.

Some Important Dates:

Last date to drop:	Tuesday, January 22
Term Test 1:	Tuesday, February 5
Term Test 2:	Thursday, March 13
Last date to Withdraw:	Friday, March 21
Term test 3:	Tuesday, April 15
Final Exam:	Friday, May 2 (in classroom from 12:30am - 2:30pm)