

COURSE: M413 Introduction to Analysis
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Time and location: Arranged

TextBook: Analysis with an introduction to proof, by Steven R. Lay, 3rd Ed.
Chapters 1 – 37.

Grading: Homework 100%

Homework is the only part of the course. Most of the answers are provided in the back of the book. It is not the answer that is important but how you get there and the understanding and justification of each step. Practice writing complete solutions for your homework, as this is what is expected on an exam. Not all of the homework problems will be graded, but **all** assigned problems are expected to be completed. A number of homework problems will be assigned, but additionally working out **all** questions of each covered section is strongly recommended. **LATE HOMEWORK WILL BE PENALIZED – 10% for each day.**

Read each section carefully - **work** as many exercises as you can (even those without the answers in the back). You are encouraged to work with other students. You may find that the actual amount of homework you do is more or less than other students. On average, you should expect to spend at least **NINE – TWELVE HOURS per week** (since this is a 3 credit-hour course) outside the class working on this material.

Actually – since this is a SUMMER class, you have to work **TWICE** as hard and **TWICE** as fast (that is four times as intense). So count on **EIGHTEEN - TWENTYFOUR** hours of work per week.

TENTATIVE SYLLABUS

Week 1 (May 12 – May 15)	Section 1: 3d, 9de	DUE: May 19
	Section 2: 13, 14, 15;	
	Section 3: 6, 8	
	Section 4: 4, 10, 13, 14	
	Section 5: 4dfh	
	Section 6: 5acefg	
	Section 7: 2	
	Section 8: 2, 3ad	
	Section 9: READ section9. Do problem 9.	
Week 2 (May 19 – May 22)	Section 10: 3, 4, 7, 10, 14	DUE: May 26
	Section 11: 4, 5, 6, 7, 8, 9	
	Section 12: 2, 3cdfkl, 4cdfkl, 6, 8, 12	
	Section 13: 2, 3ce, 4ce, 5ce, 6ce, 7, 10, 11, 15	
	Section 14: 2, 3, 4, 5b, 8, 11	
	Section 15: 2, 3, 5, 7, 10	
Week 3 (May 26 – May 29)	Section 16: 2, 3, 5, 7, 10, 13, 14	DUE: Jun 2
	Section 17: 2, 5 (no proofs), 6, 14, 15, 17, 18	
	Section 18: 3, 4, 6, 11	
	Section 19: 1, 2, 3, 7, 8	
Week 4 (Jun 2 – Jun 5)	Section 20: 1, 2, 3 (with proofs), 12, 14, 15	DUE: Jun 9
	Section 21: 1, 2, 3, 8, 11, 13, 16	
	Section 22: 1,2, 3, 4, 7, 11, 12	
	Section 23: 1, 2, 3, 9, 10	
	Section 24: 3, 8, 11, 12, 13	
Week 5 (Jun 9 – Jun 12)	Section 25: 1, 7a, 9a, 17	DUE: Jun 16
	Section 26: 5bcgj, 13, 21	
	Section 27: 3beh, 4ef	
	Section 28: 3, 5, 7	
	Section 29: 3, 5	
	Section 30: 5, 12, 13	
	Section 31: 1, 5, 6, 7,	
Week 6 (Jun 16 – Jun 19)	Section 32: 1, 2, 4, 5, 8, 13ab	DUE: Jun 23
	Section 33: 1, 2, 3, 5, 11	
	Section 34: 1, 2, 3, 5, 9	
Week 7 (Jun 23 – Jun 26)	Section 35: 1, 2, 3, 4, 5, 10, 11, 15, 19	DUE: Jun 27
	Section 36: 1, 2, 3, 5, 9, 11, 13	
	Section 37: 1, 2, 3, 6, 7, 11	