

MATHEMATICS 321 Section 201

Real Variables II

PREREQUISITE:

- MATH 320

INSTRUCTOR:

- Joel Feldman
- Math building room 221
- 822-5660
- feldman@math.ubc.ca
- <http://www.math.ubc.ca/~feldman/>
- office hours: Monday 10:00–11:00, Tuesday 1:00–2:00, Thursday 2:00–3:00

TEXT: Walter Rudin, *Principles of Mathematical Analysis*, third edition.

I will post all handouts, problem sets, etc. on the web at

<http://www.math.ubc.ca/~feldman/m321/>

TOPICS:

1. The Riemann–Stieltjes integral (§6)
2. Sequences and Series of Functions (§7)
3. Power Series, Special Functions and Fourier Series (§8)
4. a supplementary topic like Integration of Differential Forms (§10)

GRADING:

- There will be one midterm (tentatively scheduled for Wednesday, February 27) accounting for about 25% of the final mark.
- There will be weekly problem sets accounting for about 25% of the final mark.
- The final exam will account for about 50% of the final mark.
- Grades **will** probably **be scaled**.

POLICIES:

- The midterm and final examination will be strictly closed book: no formula sheets or calculators will be allowed.
- There is no supplemental examination in this course.
- Missing a homework or midterm normally results in a mark of 0. Exceptions may be granted in two cases: prior consent of the instructor or a medical emergency. In the latter case, the instructor must be notified within 48 hours of the missed test, and presented with a doctor's note immediately upon the student's return to UBC.

	Mon	Wed	Fri
Jan	no class	2 no class	4 no class
	7	9	11
	14	16 Problem Set 1	18
	21	23 Problem Set 2	25
	28	30 Problem Set 3	1
Feb	4	6 Problem Set 4	8
	11	13 Problem Set 5	15
	18 Midterm Break	20 Midterm Break	22 Midterm Break
	25	27 Midterm	29
	Mar	3	5 Problem Set 6
10		12 Problem Set 7	14
17		19 Problem Set 8	21 Good Friday
24 Easter Monday		26 Problem Set 9	28
Apr		31	2 Problem Set 10
	7	9	11