Math 1B

Links
 Professor Nicolai Reshetikhin

Reference Calendar
Lectures in gold. Exams and quizzes in blue.

August, 2016

Calculus, Fall 2016 - N. Reshetikhin
office: 917 Evans Hall
email: reshetik@math.berkeley.edu
Lectures: MWF 2:00-3-:00, 2050 Valley LSB
Office Hours: Friday 10-11:30am

Enrollment Questions
If you want to switch to another section, you have to do it yourself on TeleBears. *During the first week of classes you should register with your GSI, otherwise your place in the section will be cancelled.*

Grading Policy
The grade for the course will be computed according to the following proportions:

- 20% for 12 quizzes (held in discussion sessions on Mondays) based rather closely on the h/w problem sets.
- 25% for each of the two midterms (M1 on Sept 16, and M2 on Oct 21, during normal class hours in the lecture room 2050 Valley LSB).
- 30% for the final exam (Dec 15, 3-6pm).

Sections vary by the number and by the quality of students. If some sections will have better average grades for quizzes this should not be surprising. Quizzes will have approximately the same difficulty level in all sections and the grading policy will be uniform.

Final
Do not take this course if you have a conflict in the final exam schedule (check the *exam group numbers* of your courses in the *Schedule of Classes, Fall 2016*). This course is in the exam group 15 . The final exam date and time: Thursday Dec 15, 3-6pm

Incompletes
Official University policy states that an incomplete can be given only for valid medical excuses with a doctor's certificate and only if, at the point the grade is given, the student has a passing grade

(a C or better). If you are behind in the course, an incomplete is not an option!

Textbook

The official textbook is Single Variable Calculus: Early Transcendentals 7E for UC Berkeley by James Stewart. 8th edition, 2012, Cengage Learning Custom Publishing.

Alternative textbooks: Single Variable Calculus: Early Transcendentals 7E for UC Berkeley by James Stewart. 7th edition, Cengage Learning Custom Publishing. Or same thing, 6th edition.

The difference between these editions is minimal. Mostly it is in the enumeration of pages and in the price. If you choose an edition which differs from the official one, or any other textbook, make sure you have correct set of homework problems.

Problem sets for the entire semester will be posted on *bCourses*.

Homework Assignments

You are requested to do the assigned reading *before* each lecture. Note that mathematical texts are not meant to be read like novels: very often you will come across passages that must be read many times before they make sense to you.
Never fall behind in this course, either in the reading assignments or in the homework assignments.
Problem sets get rather heavy at times. This is intentional. Sometimes there is simply no substitute for repetitive drills.
Problem (and reading) assignments are subject to change.
It is normal when a student is trying to solve at home some extra, more complicated, problems from the textbook which were not assigned for homework.
It is very effective when you do a part of your homework together with your fellow students in a discussion group. I encourage this.
The Mathematics department is unable to hire graders for problem sets. However, problem sets will be assigned and collected on Mondays. Answer sheets will be available here online on Wednesdays.
The homework is assigned for 8th edition of Stewart.
When you will be working on practice problems for exams, I recommend to time yourself, allowing only 10 min per problem.

Week 1

Aug 24, Introduction, 7.1 , 476 : 1,5,7,13,18,19,21,27,33,47
Aug 26, 7.2, 484 : 1,3,4,7,9,17,20,21,39,68

Week 2

Aug 29, 7.3, 491 : 1,5,7,10,11,13,27,30
Aug 31, 7.4, 501: 1,3,7,9,19,21,22,23,35
Sept 2, 7.4, 501 : 45,46,51,52,60; 7.5, 507 : 5,13,16,50,72

Week 3

Sept 5, Labor Day
Sept 7, 7.7, 524: 1,19,20,21,22
Sept 9, 7.8, 534: 1,5,6,7,9,13,19,22,23,49,53,55,58,77

Week 4

Sept 12, 8.1, 548: 1,2,11,12; 8.2, 555: 1,3,4,9,10
Sept 14, Review, 537-539
Sept 16, Midterm 1

Practice Midterm

Here are some practice midterms 1, 2, 3, 4 and solutions 1 , 2 , 3 .

Week 5

Sept 19, 11.1, 704: 4,5,8,9,14,15,18,25,26,29,49
Sept 21, 11.2, 715: 3,16,21,23,27,36,38,43,44,48,53,54
Sept 23, 11.3 , 725 : 3,5,7,12,15,25,27

Week 6

Sept 26, 11.4: 731: 1,2,3,5,7,11,18,21
Sept 28, 11.4, 731: 31,37,42,43,44
Sept 30, 11.5, 736 : 4,10,13,15,17,27,32

Week 7

Oct 3, 11.6, 742: 1,2,3,4,9,10,22,25
Oct 5, 11.6, 742: 27,29,31,33,39,41
Oct 7, 11.7, 746: 1,2,3,7,9,11,13,15,17,18,21,25,29,33,35,37

Week 8

Oct 10, 11.8, 751 : 3,4,8,11,15,23,24,27,30
Oct 12, 11.8, 11.9, 757 : 1,2,3,6,9,11,17,27,29,37
Oct 14 11.9,

Week 9

Oct 17, 11.10 771: 3,5,8,9,11,14,15,18,20,23,25,28,35,37,53,55,58
Oct 19, Review 784 : 1-12, 784: true-false quiz
785-786 : 3,4,7,11,15,16,17,18,26,40-43,49,51
Oct 21 Midterm 2

Practice Midterm

Here are some practice exams 1 , 2 , 3 , 4 , 5 , 6 , questions and some solutions .

Week 10

Oct 24, 9.1, 590 :1,2,3,4,6(a),7
Oct 26, 9.2, 597: 1,2,3-6,7,11,13,21,23
Oct 28, 9.3, 605 : 1,3,6,7,11,14,19,22,40,43

Week 11

Oct 31, 9.4, 617 : 3, 11, 15, 17
Nov 2, 9.5, 625 :1,3,4,5,7,9,12,14,15,16,17,23,24,26
Nov 4, 9.6, 632 : 8,10,11

Week 12

Nov 7, 17.1, 1160: 1,3,5,7,9,13,17,19,20,22,24,29,33
Nov 9, 17.2, 1167: 1-10,
Nov 11, Veterans Day

Week 13

Nov 14, 17.2, 1167: 13-26,
Nov 16, 17.3 1175: 1-4, 9-12
Nov 18, 17. 4 1181: 1-10

Week 14

Nov 21, Review 1181: 1-16,
Nov 23, Thanksgiving
Nov 25, Thankgiving

Week 15

Nov 28, Review
Nov 30, Review

Week 16

Dec 2, Review

Dec 15

Final Exam

The final exam will be on Thursday, Dec 15, 3-6pm. This course is in exam group 15, and there is no alternate date for this exam. Here are samples of final exams: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, with some solutions. Here are the finals for 2007 and 2013 .

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S	M	T	W	T	F	S
			24	25	26	27
28	29	30	31			

September, 2016

S	M	T	W	T	F	S
				01	02	03
04	05	06	07	08	09	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October, 2016

S	M	T	W	T	F	S
						01
02	03	04	05	06	07	08
09	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

November, 2016

S	M	T	W	T	F	S
		01	02	03	04	05
06	07	08	09	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December, 2016

S	M	T	W	T	F	S
				01	02	03
04	05	06	07	08	09	10
11	12	13	14	15	16	17
18	19					