

Calculus II Sections 7-10 Spring 2009 Syllabus

Instructor:	Professor Minoo Aminian	
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Office Hours:	Tu : 10:45am – 12:15pm or by appointment	
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Course Objective:

This is a course to study techniques and applications of integration, polar coordinates, parametric equations, infinite sequences and series, vector functions and curves in space, functions of several variables, and partial derivatives.

Prerequisites: MATH 1010.

Textbook:

Calculus, Early Transcendentals, 6th edition by James Stewart

Course Schedule:

All sections 7 – 10 meet: MR 2:00pm - 3:20pm in DARRIN 318

Recitation Sections Schedule:

Section	Time	Place
7	Tuesday/Friday 1:00 – 1:50pm	LOW 4034
8	Tuesday/Friday 1:00 – 1:50pm	SAGE 2715
9	Tuesday/Friday 2:00 – 2:50pm	LOW 4040
10	Tuesday/Friday 2:00 – 2:50pm	LALLY 02

Homework:

Homeworks are not graded, but I strongly advise you to do the homeworks on time and thoroughly since the homeworks are the basis for quizzes and exams.

Pre-Calculus Quiz:

There will be a quiz on Friday, January 16th from the material that you are supposed to know **before** the calculus. This quiz will last 30 minutes and the problems are drawn from the book "Ready...Set...Calculus..." which is available online at http://www.math.rpi.edu/ms_resources/index.html. There will be no partial credits assigned for the problems in this quiz. There will be no make-up for this quiz.

CSNPC Quiz:

Calculus Skills No Partial Credit (CSNPC) Quiz: These quizzes will be given during recitations. The questions are from the pool of questions found at <http://calculus.math.rpi.edu> and since they are graded based on no partial credits so you need to have enough practice to finish problems on time. You will have two opportunities for each quiz (Quiz A and Quiz B) to take the quiz during consecutive recitation periods. The highest score of the two quizzes will be counted toward the final grade. The grade on quiz A will not be reported to the students, so all the students should take both quizzes to take full advantage of the opportunity.

Missing CSNPC Quizzes:

You may not make up any CSNPC quizzes that is missed at its scheduled time; however you can retake each quiz once during one of the several retake days seen in the course schedule. The higher of the two quizzes will be assigned as your grade for that quiz.

Exams:

There will be three in-class exams during the semester. You can find the material and dates of these exams in the tentative course schedule. The material include both no partial credit problems like CSNPC quizzes and work out problems like in-class quizzes.

Final Exam:

Final exam will be comprehensive and include all the course material. The format will be the same as in-class exams. The date will be announced later in the semester by the Registrar's office.

Make up Exam Policy:

Exams are given during the class time, therefore there will be **no** makeup exam. Students who know they will miss an exam, must notify the instructor ahead of time. The only exception will be medical emergencies.

Attendance:

You should attend all the lectures and recitations in order not to lose the opportunities to take the quizzes and discussion of all the material and concepts that will be in exams.

Grade Appeal:

You have one week from the time that you receive your grade to dispute your assigned grade. Grade appeals must be made in writing to me with your signature and include the original work in dispute.

Course Schedule:

This is a tentative schedule and there might be some changes in the topics and dates as we progress.

Class Dates	Topics	Notes
Jan. 12, Monday	Review – Integrals (5.3-5.4)	
Recitation, Tues.		Diagnostic Exam
Jan. 15, Thursday	Review – Integrals (5.5) Integration by parts (7.1)	
Recitation, Fri.		Pre-Calculus (RSC) Test
Jan. 19, Monday	No Class (Martin Luther King Jr. Day)	
Recitation, Tues.		Skills Quiz 1A (5.3 – 5.5)
Jan. 22, Thursday	Trigonometric Integrals (7.2)	
Recitation, Fri.		Skills Quiz 1B (5.3 – 5.5)
Jan. 25, Monday	Integration of Rational Functions (7.4)	
Recitation, Tues.		Skills Quiz 2A (7.1 & 7.2)
Jan. 29, Thursday	Trigonometric Substitution (7.3) Strategy for Integration (7.5)	
Recitation, Fri.		Skills Quiz 2B (7.1 & 7.2)
Feb. 2, Monday	Strategy for Integration (7.5) Improper Integrals (7.8)	
Recitation, Tues.		Skills Quiz 3A (7.2 & 7.4)
Feb. 5, Thursday	Review for Exam 1	
Recitation, Fri.		Skills Quiz 3B (7.2 & 7.4)
Feb. 9, Monday	Exam 1	On Ch.s 5 & 7 sections covered in class.

Class Dates	Topics	Notes
Recitation, Tues.		Retake Skills Quiz (1 or 2 or 3)
Feb. 12, Thursday	Partial Derivatives (14.1 & 14.3)	
Recitation, Fri.		Retake Skills Quiz (1 or 2 or 3)
Feb. 16, Monday	No Class (Presidents Day)	
Feb. 17, Tuesday Follow Monday Class	Partial Derivatives (14.3) Parametric Equations (10.1)	
Recitation, Tues.		No Recitations
Feb. 19, Thursday	Parametric Equations (10.1 & 10.2)	
Recitation, Fri.		Skills Quiz 4B (14.3)
Feb. 23, Monday	Polar Coordinates (10.3)	
Recitation, Tues.		Skills Quiz 5A (10.3)
Feb. 26, Thursday	Areas and Length in Polar Coordinates (10.4)	
Recitation, Fri.		Skills Quiz 5B (10.3)
Mar. 2, Mon	Review for Exam 2	
Recitation, Tues.		Retake Skills Quiz (4 or 5)
Mar. 5, Thursday	Exam 2	On Ch.s 10 & 14 sections covered class.
Recitation, Fri.		Retake Skills Quiz (4 or 5)
Mar. 9-13	Spring Break	
Mar. 16, Monday	Vectors (12.1 – 12.3)	
Recitation, Tues.		Skills Quiz 6A (12.3)
Mar. 19, Thursday	Vectors (12.3-12.4)	
Recitation, Fri.		Skills Quiz 6B (12.3)
Mar. 23, Monday	Equation of Lines and Planes (12.5)	
Recitation, Tues.		Skills Quiz 7A (12.4)
Mar. 26, Thursday	Vector Functions (13.1 – 13.2)	
Recitation, Fri.		Skills Quiz 7B (12.4)
Mar. 30, Monday	Review for Exam 3	
Recitation, Tues.		Skills Quiz 8A (13.2)

Class Dates	Topics	Notes
Apr. 2, Thursday	Exam 3	On Ch.s 12 & 13 as covered in class.
Recitation, Fri.		Skills Quiz 8B (13.2)
Apr. 6, Monday	Infinite Sequences and Series (11.1 – 11.2)	
Recitation, Tues.		Retake Skill Quiz (6 or 7 or 8)
Apr. 9, Thursday	Infinite Sequences and Series (11.2 – 11.3)	
Recitation, Fri.		Retake Skill Quiz (6 or 7 or 8)
Apr. 13, Monday	Infinite Sequences and Series (11.5 – 11.6)	
Recitation, Tues.		Review
Apr. 16, Thursday	Infinite Sequences and Series (11.8 – 11.9)	
Recitation, Fri.		Post-Calculus Test
Apr. 20, Monday	Infinite Sequences and Series (11.10 – 11.11)	
Recitation, Tues.		Skills Quiz 8A (11.11)
Apr. 27, Thursday	Review for Final	
Recitation, Fri.		Skills Quiz 8B (11.11)

Tentative Exam Dates:

Exam	Dates
1	Monday, February 9 th
2	Thursday, March 5 th
3	Thursday, April 2 nd
Final Exam	To be scheduled later by the Registrar's office

Grading

The final grade breakdown is as follows:

Pre-Calculus Quiz	5%
CSNPC Quizzes	25%
3 Exams	40%
Final	30%

The letter grade cutoffs will be:

A \geq 92
A- \geq 90
B+ \geq 87
B \geq 82
B- \geq 80
C+ \geq 76
C \geq 70
C- \geq 66
D+ \geq 60
D \geq 55
F < 55

I reserve the right to lower these cutoff points but I will not raise them.

Calculators and on-line communications are not permitted during the quizzes and exams. Exams may contain bonus points.

Academic Integrity

Academic dishonesty is considered a serious matter and the student may be subject to penalties as explained in the current Rensselaer Handbook of Student Rights and Responsibilities.

You may collaborate on homework assignments and in-class exercises. In fact this is encouraged, however each student must write his own solution.

Exams and quizzes are to be strictly independent work. Any collaboration or information sharing during these will be considered academic dishonesty.