<u>SYLLABUS</u>

SUMMER 2017 SESSION TWO MATH-UA.0123.001 CALCULUS III

INSTRUCTOR

Liming PANG Email: Liming@cims.nyu.edu Office Hours: Mon. 14:00 -- 16:00 Room 1110, Courant Institute of Mathematical Sciences, NYU

LECTURES

Time: Mon. Tue. Wed. Thu. 11:10--13:15 Classroom: Room LL150, Bobst Library, NYU

COURSE WEBSITE

http://cims.nyu.edu/~liming/Calculus3/Calculus3.html

Lecture Notes will be uploaded to this website after each class. You can also find Homework and Homework Solutions there.

<u>TEXTBOOK</u>

Essential Calculus : Early Transcendentals (Second Edition) by James Stewart

<u>GRADING POLICY</u>

Your course score will be determined as the following weighted average:

ITEM	WEIGHT
HOMEWORK	16%
MIDTERM	38%
FINAL	46%

HOMEWORK

Homework of each week will be divided into two parts, posting on Tuesday and Thursday respectively, and both parts will be collected during lecture on the following Tuesday. There will be 5 sets of homework in total, and the lowest grade among the 5 sets will be excluded when computing total homework grading. Please submit your homework on time. Late homework shall not be accepted.

<u>EXAMS</u>

Midterm: 11:15--13:15 2017 July 20 (Thursday) Final: 11:15--13:15 2017 August 10 (Thursday)

We will not be able to accommodate out-of-sequence exams for purposes of more convenient travel, including already purchased tickets. Please note again the date of the exams and plan your travel accordingly.

If you require additional accommodations as determined by the Center for Student Disabilities, please let your instructor know as soon as possible.

TENTATIVE SCHEDULE

	Monday	Tuesday	Wednesday	Thursday
Week 1	Vectors in Three	Independence Day	Equations of	Vector
	Dimension	No Class	lines and	Functions,
			Surfaces	Space Curves
Week 2	Arc Length,	Limits and	Graphs, Level	Chain Rule,
	Curvature, and	Continuity of	Sets,	Linear
	Physics	Multi-Variable	Partial	Approximation
		Function	Derivatives	
Week 3	Directional	Optimization	Review	Midterm
	Derivatives,			
	Gradient Vector			
Week 4	Double Integrals	Double Integral	Triple Integrals	Triple
		in Polar		Integrals in
		Coordinates,		Cylindrical and
		Applications		Spherical
				Coordinates
Week 5	Change of	Vector Field and	The Fundamental	Green's Theorem
	Variables	Line Integral	Theorem for Line	
			Integrals	
Week 6	Stokes' Theorem	Divergence	Review	Final
		Theorem		

UNDERGRADUATE TUTORING CENTER

There is an Undergraduate Tutoring Center in Mathematics Department: https://math.nyu.edu/dynamic/undergrad/tutoring/

which provides walk-in help.

If you meet with difficulties when doing exercises, besides discussing with the instructor, you may also visit the tutoring center.