## Information – Math 233

Professor	Marcello Lucia Office 1S-226, marcello.lucia@csi.cuny.edu http://www.math.csi.cuny.edu/~mlucia/					
Time and Place	Monday, Wednesday: 6:30–8:10pm, 1S-219					
	Office hours, Monday: 5:30–6:	Office hours, Monday: $5:30-6:20$ pm, $8:00-9:00$ pm and Wednesday: $8:00-9:00$ pm.				
Textbook	CALCULUS-EARLY TRANSCENDENTALS, by <i>Rogawski</i> W.H. Freeman & Co. (2015) ISBN-13: 978-1-4641-1488-5, ISBN-10: 1-4641-1488-9					
Course Outline	This course aims to study functions in two and three variables. The notion of continuity, differentiability, integral of several variable functions will be covered by this class.					
Course Grade	The final course grade is determined as follows:					
	Homework Matlab Quizzes	$5\% \\ 5\% \\ 20\%$	First Test Second Test Final	$10\% \\ 20\% \\ 40\%$		
	<ul> <li>Homework: You must do the HW related to the sections that have been covered during the week. There is a deadline every Sunday.</li> <li>The HW must be submitted using "Webwork" that can be found on the mathematics Website of CSI. Go to http://www.math.csi.cuny.edu/ and follow the links.</li> <li>MatLab: Projects can be found on the mathematical Website.</li> <li>Quizz: Every Wednesday, you must expect a quizz <ul> <li>There will be a total of 10 quizzes, each one will be graded out of 10 (a total maximal sum of 100)</li> <li>The sum of those quizzes will be 20% of the final grade</li> <li>A sum strictly less than 40 will be an F for this class</li> </ul> </li> <li>First test: Wednesday, April 25th <ul> <li>Final: Refer to the official calendar of CSI</li> <li>The material for the tests is cumulative</li> <li>MatLab Deadline:</li> <li>The Four MatLab Projects must be submitted by May 23rd, 2018.</li> </ul> </li> </ul>					
Integrity policy	Cheating hurts everybody. Please refer to http://www.csi.cuny.edu/privacy/cuny_academic_integrity.pdf					
Cell phone	Let us stay focused on the class ! Thus, cell phone must be switched OFF.					
Lesson Plans	Below, each lesson corresponds to a 50minutes class					

Lesson	Sections	Topics	Homework (Webwork)
1	12.1, 12.2	Vectors	12.1 & 12.2
2	12.3	Dot Product	12.3
3	12.4	Quiz 1, Cross Product	12.4
4	12.5	Planes in three-space	12.5
5	12.6	Quadratic surface	12.6
6	13.1	Vector-valued functions	13.1
7	13.2	Calculus of vector-valued functions	13.2
8	13.3	Arc-length and speed	13.3
9	13.4	Curvature	13.4
10	13.5	Motion in three space	13.5
11, 12	14.1	Functions of several variables	14.1
13	14.2	Limits and continuity	14.2
14	14.3	Partial derivatives	14.3
15	14.4	Tangent planes	14.4
16	14.5	Gradient, Directional derivatives	14.5
17, 18		<b>EXAM 1</b> , Wednesday, February 28th	
19, 20	14.6	Chain rule	14.6
21, 22	14.7	Optimization	14.7
23, 24	14.7	Optimization	14.7
25, 26	14.8	Lagrange multipliers	14.8
27, 28	15.1	Integration in several variables	15.1
29, 30	15.1	Integration in several variables	15.1
31, 32	15.2	Double integrals	15.2
33, 34	15.3	Triple integrals	15.3
35, 36	15.4	Integration in other coordinates	15.4
37, 38	15.5	Change of variables	15.5
39, 40	16.1	Vector fields	16.1
41, 42	16.2	Line integrals	16.2
43, 44	16.3	Conservative vector fields	16.3
45, 46		<b>EXAM 2</b> , Wednesday April 25th	
47, 48	16.4	Parametrized surfaces	16.4
49, 50	16.4	Surface integral	16.4
51, 52	16.5	Surface integral of vector fields	16.5
53, 54	17.1	Green's Theorem	17.1
55, 56	17.2, 17.3	Divergence Theorem	17.2

A review will be done on Wednesday May 16, 2018.