Information – Math 231

Professor	Marcello Lucia Office 1S-226, marcello.lucia@csi.cuny.edu `http://www.math.csi.cuny.edu/~mlucia/`
Time and Place	Monday, Wednesday: 2:30–4:25pm, 1S-217 Office hours: Monday: 4:30–5:30pm, 8:00–8:45pm and Wednesday: 4:30–5:30pm.
Textbook	CALCULUS-EARLY TRANSCENDENTALS, by *Rogawski* 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 of one variable. The notion of limit, continuity, derivative and integrals will be covered in this class.

Course Grade   The final course grade is determined as follows:

Homework	5%	**First Test**	15%	
Quizzes	20%	**Second Test**	20%	
		Final	40%	

You must have at least a C to take Math 232.

Homework: You must do the HW related to the sections that have been covered during the week. There is a deadline every Sunday.
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.

Quizzes:

- There will be a total of 5 quizzes. Each one will be graded out of 20 (a total maximal score of 100)
- The sum of those quizzes will be 20% of the final grade
- A final score on the quizzes which is ≤ 40 will be an F for this class

First test: Monday, October 7th, 2019
Second Test: Monday, December 2nd, 2019
Final: Refer to the official calendar of CSI
The material for the tests is cumulative

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	1.2, 1.4	Linear and quadratic functions	1.2, 1.4
2	1.5, 1.6	Inverse functions, Exponential & Log functions	1.5, 1.6
3	2.1, 2.2	Limits	2.1, 2.2
4	2.3	Limit laws	2.3
5	2.4	Continuity	2.4
6	2.5	Evaluating limits	2.5
7	2.6	Trigonometric functions	2.6
8	2.7	Limits at infinity	2.7
9, 10	2.8	Intermediate Value Theorem	2.8
11, 12	3.1, 3.2	Notion of Derivative	3.1, 3.2
13	3.3	Product and quotient rules	3.3
14	3.4	Rates of change	3.4
15	3.5	Higher derivatives	3.5
16	3.6	Trigonometric functions	
17	3.6	Derivative of trigonometric function	3.6
18	3.7	Chain rule	3.7
19, 20	3.8	Implicit differentiation	3.8
21, 22		**Exam 1** (Monday, October 7th)	
23, 24	3.9	Derivatives of exponentials and logs	3.9
25	3.10	Related rates	3.10
26	4.1	Linear approximation	4.1
27, 28	4.2	Extreme values	4.2
29, 30	4.3	First derivative test	4.3
31, 32	4.4	Concavity, Second derivative	4.4
33, 34	4.5	L'Hôpital rule	4.5
35, 36	4.6	Graph sketching, asymptotes	4.6
37, 38	4.7	Optimization	4.7
39, 40	5.1	Approximating Area	5.1
41, 42	5.2	Definite Integral	5.2
43, 44	5.3	Antiderivative	5.3
45, 46	5.4, 5.5	Fundamental Theorem of Calculus	5.4, 5.5
47, 48	5.7	Integration by substitution	5.7
49, 50		**Exam 2** (Monday, December 2nd)	
51, 52	5.8	Integration of transcendental functions	5.8
53, 54		Problems on integrations	
55, 56		REVIEW	