Information – Math 233

Professor

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Time and Place

Monday, Wednesday: 6:30–8:10pm, 1S-219

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 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	5%	**First Test**	10%
Matlab	5 %	**Second Test**	20%
Quizzes	20%	**Final**	40%

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.

MatLab: Projects can be found on the mathematical Website.

Quizz:

- 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 score less than ≤ 40 will be an F for this class

First test: Monday, October 7th
Second Test: Monday, December 2nd
Final: Refer to the official calendar of CSI
The material for the tests is cumulative
Matlab Deadline:
The Four MatLab Projects must be submitted by December 18th, 2019.

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	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	14.6	Chain rule	14.6
19, 20	14.7	Optimization	14.7
21, 22		**EXAM 1**, Monday, October 7th	
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	16.3	Conservative vector fields	16.3
47, 48	16.4	Parametrized surfaces	16.4
49, 50		**EXAM 2**, Monday, December 2nd	
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