MAT237Y1 – LEC5201 Multivariable Calculus

WELCOME TO MAT237!



September 5th, 2019

Information about this section:



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Jean-Baptiste (JB) Campesato campesat@math.toronto.edu Please start the subject with "MAT237:"

Lectures schedule:

- Tuesday, 6pm to 7pm Room SS2117
- Thursday, 6pm to 8pm Room SS2117

Office hours:

- Tuesday, 7pm to 8pm Room PG003
- Thursday, 3pm to 4pm Room PG003

Website for this section:

http://uoft.me/MAT237-5201



MAT237 website:

http://uoft.me/MAT237-2019



Quercus:

- Announcements
- Discussions
- WeBWorK

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Lecture notes:
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http://uoft.me/MAT237-notes

Administrative questions:

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admin237@math.toronto.edu



Enrol in a tutorial!

- Participation (10%) Based on your WeBWorK submissions, problem sets and tutorial reflections.
- 4 tests (15% each)
- Final Exam (30%)

Read the syllabus for the details.

Preliminaries

- Week 1 Geometry of Euclidean spaces, multivariable functions Some topological notions
- Week 2 Open subsets, closed subsets, boundaries, ...
- Week 3 Limits, continuity, completeness
- Week 4 Compactness, connectedness (the IVT)

Differentiation

- Week 5 Partial derivatives
- Week 6 Differentials
- Week 7 The Chain Rule
- Week 8 The MVT
- Week 9 Taylor's formula
- Week 10 Applications
- Week 11 Review
- Week 12 The Implicit Function Theorem

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- Read the syllabus
- Review MAT137 materials
- Read the section 0.1 Prerequisites of the notes