# Carleton U, School of Math & Stats Differential Equations and Multivariable Calculus BIT 2010-A -- ONLINE

# Dr. %J Cova

### Winter 2021

- WEBSITE: https://www.carleton.ca/culearn
- LECTURES (asynchronous): Friday 8:35 11:35 h, via Culearn Big Blue Button [BBB].
- CONSULTATION: Anytime by email replies within 24 h.
- ▼ TUTORIALS: (from 22 January) Friday 12:05 12:55 h, Culearn BBB. These highly beneficial tutorial classes will supplement the main lectures to enhance your training.

  √ Teaching Assistant (TA): ranfeijiang@cmail.carleton.ca
- ▼ TEXTBOOK: CALCULUS, VOLUME 3, by Gilbert Strang and Edwin Herman (OPENSTAX, 2016).

The online version of the book is freely available at https://openlibrary.ecampusontario.ca. Printed copies (not free) may be ordered at the foresaid site.

### GENERAL CONTENTS:

Curves and surfaces. Polar, cylindrical and spherical coordinates. Partial derivatives, gradients, extrema and Lagrange multipliers. Exact differentials. Multiple integrals. Integrals over surfaces. Line integrals. Green's Theorem, the Curl theorem, the Divergence Theorem. Applications.

• From the textbook: Selected sections from chapters I - VI.

### **SECTION SECTION SECT**

Tests: 35 %. Assignments: 40 %. Final Exam: 25 %.

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 $\underbrace{\text{TESTS}}$ : Two tests T1, T2 of equal weight will be administered through Culearn on the tutorial hours of

### 12 February, 26 February.

Assignments: We shall have three assignments As1 (10 %), As2 (15 %), As3 (15 %) with respective submission deadlines

## 12 March, 26 March, 31 March.

- $\sqrt{}$  We apologise that we have no make-up evaluations (neither tests nor assignments) in this course. Failure to submit an evaluation may be excused by ill-health, events of extreme personal misfortune, sports obligations, jury duty, &c. Please fill-in the form 'self-declaration for academic accommodation' and urgently email it to your Instructor. Subject to a favourable analysis, the weight of the missed evaluation may be transferred to the Final Exam.
- CALCULATORS, MEMORANDA: Any calculator/memoranda may be used in our evaluations but NO help from another human being is permitted in any manner whatsoever.
- WITHDRAWAL: The last day to withdraw the course is 14 April.
- ACADEMIC ACCOMMODATION: Please check the university website asap.
- ETIQUETTE. ACADEMIC INTEGRITY: Please read Section 14 of the Academic Regulations of Carleton University at http://calendar.carleton.ca/undergrad/regulations.

### \* REMARK \*

By registering in this course you acknowledge that the university may use online proctoring tools which could require your identifying yourself via webcam. Additionally, during the evaluations your activities may be monitored either by direct observation via webcam or through the use of a screen-recording software. Evidence of academic misconduct will be treated very seriously.

 $\star$  the outline might change depending on the course dynamics  $\star$ 

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