

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

Dr. RJ Cova

Winter 2020

- ✍ OFFICE: HP 5250. PHONE: 613-5202600 ext 1983.
- ✍ E-MAIL: rcova@math.carleton.ca – replies within 48 h.
- ✍ WEBSITE: <https://www.carleton.ca/culearn>

- ✍ LECTURES: Wednesday, Friday 8:35 - 9:55 h, AP 132.
- ✍ CONSULTATION HOUR: Friday 10:30 - 11:30 h, HP-5250.
- ✍ TUTORIALS: (from 17 January) Friday 10:05 - 10:55 h, AP 132.
✓ Teaching Assistant (TA): guillaumeproulx@cmail.carleton.ca

- ✍ TEXTBOOK: *University Calculus: Early Transcendentals*, Hass, Weir, Thomas, 3rd edition, Pearson, 2015. Remark: any edition should do fine.
- ✍ GENERAL CONTENTS: Integrals. Curves and surfaces. Polar, cylindrical and spherical coordinates. Vectors. Partial derivatives. Gradients. Extrema. Lagrange multipliers. Exact differentials. Multiple integrals over rectangular and general regions. Line integrals. Integrals over surfaces. Green's Theorem, Curl theorem, Divergence Theorem. Differential equations. Applications.
 - From the textbook: Selected sections from chapters 5 - 17 (excluding chapter 9).

- ✍ GRADING SCHEME:

Tutorials: 10 %. Tests: 40 %. Final Exam: 50 %.

- ✍ TUTORIALS: You will greatly benefit from the tutorial classes where our TAs will supplement the main lectures thus enhancing your training. Attendance and work therein is worth 10 % of the final grade.

📌 TESTS: Three tests of equal weight will be administered, one in each of the tutorial sessions on

31 January, 28 February, 20 March.

✓ We apologise that there will be no make-up tests in this course. Absence from a test may be excused (and your grade pro-rated) by ill-health supported by a hard-copy of the Carleton University medical certificate. Events of extreme personal misfortune, sports obligations, jury duty, &c. may also be considered upon presentation of supporting documentation (hard-copy).

✓ Kindly collect your test papers from your TA. Due to scarcity of space, we beg your pardon that uncollected papers will be discarded.

✓ Please advise your TA of test grading issues within five days of receiving the test paper. Most regretfully, grading problems brought up outside this period shall not be addressed.

📌 FINAL EXAMINATION: This is the customary three-hour exam to be applied during the period 13-25 April. The exact date and venue will be announced by the university in due course.

📌 MEMORANDA, CALCULATORS: No memoranda, including calculators, are permitted in our evaluations.

📌 Math TUTORIAL CENTRE: This is a great facility located @ HP 3422. Pop in for details.

📌 WITHDRAWAL: The last day to withdraw the course with a full fee adjustment is 31 January.

📌 ACADEMIC ACCOMMODATION (for details kindly read the Student Guide):

- Disabilities: Please contact the Paul Menton Centre (500 University Centre) as soon as possible.
- Religious, pregnancy obligations: Kindly issue a formal written request (hard-copy) to us at your earliest convenience.

📌 ETIQUETTE. ACADEMIC INTEGRITY: Please read Section 14 of the Academic Regulations of Carleton University at <http://calendar.carleton.ca/undergrad/regulations>.

★ the outline might change depending on the course dynamics ★

□ kindly alert us of errors in this document □

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Remarks: