



# UNIVERSITY OF CALGARY

## DEPARTMENT OF MATHEMATICS COURSE OUTLINE

### COURSE OUTLINE

**1.Course:** Math 445: Analysis II and Math 447: Honours Analysis II

Lecture: L01 TR 11:00 to 12:15 EEEL345

**Instructor:** Ryan Hamilton Office MS574 Tel. (403) 220-3950 e-mail rhamilt@ucalgary.ca  
Office Hours: Monday 12:00 to 2:00 and Thursday 12:15 to 13:30

**Text:** Vector Calculus, Linear Algebra, and Differential Forms, by John Hubbard, Barbara Hubbard, 4th edition, Matrix Edition, sold in the University Bookstore.

**Course Site:** d2l.ucalgary.ca (used for posting of course supplements, component grades and communication with students). NOTE: D2L is now linked exclusively to your University of Calgary email address.

**Department Info:** Department Office: Department of Mathematics and Statistics – MS476  
Telephone number – 403-220-5210

**2.Prerequisites:** Mathematics 353 or 367 or 377 or 381 or Applied Mathematics 309; and Mathematics 311 or 313; and Mathematics 335 or 355 or Pure Mathematics 435 or 455; or consent of the Department.

Antirequisites: Credit for more than one of Math 445, Math 447 and Pure Math 445 will not be allowed.

**3.Grading:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

|                   |     |   |
|-------------------|-----|---|
| Assignments (4)   | 20% | (due Jan. 27, Feb 26, Mar. 19, April 14)        |
| Tests (2)         | 30% | (to take place in lecture- Feb. 12 and Mar. 26) |
| Final Examination | 50% | (To be scheduled by the Registrar)              |

There will be differences between the assignments and tests for Math 445 and Math 447.

Each piece of work (assignment, laboratory report, midterm test or final examination submitted by the student will be assigned a percentage score. The student's average percentage score for the various components listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade. The conversion between course percentage and letter grade is given below.

**NOTE: A passing grade (>50%) is required on the final exam in order to obtain a mark of C- or better for the course.**

#### Letter Grade Conversions

| Letter Grade | % range |
|--------------|---------|
| A+           | >95     |
| A            | 88–94.5 |
| A-           | 84–87.5 |
| B+           | 80–83.5 |
| B            | 76–79.5 |
| B-           | 72–75.5 |
| C+           | 68–71.5 |
| C            | 64–67.5 |
| C-           | 60–63.5 |
| D+           | 55–59.5 |
| D            | 50–54.5 |
| F            | <50     |

**4. Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in Section 3.6. It is the student's responsibility to familiarize himself/herself with these regulations. See also Section E.6 of the University Calendar

**5. Course Materials:** Vector Calculus, Linear Algebra, and Differential Forms, by John Hubbard, Barbara Hubbard, 4th edition, Matrix Edition, sold in the University Bookstore.

**6. Examination Policy:** No aids of any kind will be permitted on tests and the final exam. Students should also read the Calendar, Section G, on Examinations.

## **7. OTHER IMPORTANT INFORMATION FOR STUDENTS:**

- (a) Academic Misconduct: (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under Section K. Student Misconduct to inform yourself of definitions, processes and penalties
- (b) Assembly Points: In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on assembly points.
- (c) Academic Accommodation Policy: Students with documentable disabilities are referred to the following links:  
Calendar entry on students with disabilities and Student Accessibility Services. MSC452 Phone: 220-8237
- (d) Safewalk: Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220 5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) Freedom of Information and Privacy: This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPPA). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>.
- (f) Student Union Information: VP Academic Phone: 220-3911 Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca)  
SU Faculty Rep. Phone: 220-3913 Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca)  
Student Ombudsman Phone: 220-6420 Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca)
- (g) Internet and Electronic Device Information: You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (h) At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses ([www.ucalgary.ca/usri](http://www.ucalgary.ca/usri)). Your responses make a difference - please participate in USRI Surveys.