



Advanced Calculus II

Winter 2018

CALENDAR DESCRIPTION: Spherical and cylindrical polar coordinate transformations; multiple integrals; line integrals; vector and scalar fields including the gradient, divergence, curl and directional derivative, and their physical interpretation; theorems of Green and Stokes; uniform convergence.

TEXT: No text is required, as the lecture notes will contain all required information. I have written a four-semester Calculus text book and will make available draft sections for extra reading, examples, and exercises. Students who have the four-semester Calculus text by either Thomas or Stewart may find additional related reading, examples, and exercises there.

WEBSITE: Access the course website through courselink.uoguelph.ca.

INSTRUCTOR: Dr. Herb Kunze

OFFICE HOURS: Wednesday, 8:30-12:00

MACN 507, x53286 hkunze@uoguelph.ca

MEETINGS:

Lectures	Tues / Thurs	MCKN 223	2:30-3:50

COURSE ASSESSMENT: There will be one 75-minute in-class midterm test, five assignments, and a final examination.

	Value	Date	
Assignments	25%	Due in class, at start of Thursday classes	
Term Test	25%	Thursday, March 8	
Final Examination	50%	Saturday, April 14, 2:30-4:30	

NOTES:

- 1. The lectures are the primary source of course material. Any text book reading is for extra examples and exercises.
- 2. Students are expected to attend all classes and labs. Students are responsible for all material presented in classes as well as any announcements concerning changes in course material or test dates.
- The Undergraduate Calendar outlines the Grounds for Academic Consideration at http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac-ac.shtml.
 http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac-ac.shtml.
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Appendix – Statements from the University Administration



The content on the other side of this page is what I want to say to and share with you. The University Administration asks that I also present the following items:

- This 0.5-credit course is offered by the Department of Math & Stats @ the University of Guelph, with prerequisite MATH*2200. The course has a Teaching Assistant, who will grade assignments.
- The objectives of the course are that you will have a deep understanding and appreciation for the material that we cover and for the power and beauty of mathematics in general. We can also mention numeracy, critical thinking, and problem solving as skills that will develop.
- The Administration wants you to read (again) many standard statements that are also posted online by the Provost at http://www.uoguelph.ca/vpacademic/avpa/checklist.php.

E-mail Communication: As per university regulations, all students are required to check their	I will talk to you
<mail.uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the</mail.uoguelph.ca>	in class.
University and its students.	
When You Cannot Meet a Course Requirement: When you find yourself unable to meet an in-course	See Note 3 on
requirement because of illness or compassionate reasons, please advise the course instructor (or	other side.
designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. See	Just talk to me.
the undergraduate calendar for info on regulations and procedures for Academic Consideration.	
Drop Date: Courses that are one semester long must be dropped by the end of the fortieth class day; two-	Friday, Mar. 9,
semester courses must be dropped by the last day of the add period in the second semester. The	but why drop?
regulations and procedures for <u>Dropping Courses</u> are available in the Undergraduate Calendar.	Just talk to me.
Copies of out-of-class assignments: Keep paper and/or other reliable back-up copies of all out-of-class	I've never had
assignments: you may be asked to resubmit work at any time.	to do this.
Accessibility: The University promotes the full participation of students who experience disabilities in their	Talk to me.
academic programs. To that end, the provision of academic accommodation is a shared responsibility	
between the University and the student. When accommodations are needed, the student is required to	
first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a	
disability is required, however, interim accommodations may be possible while that process is underway.	
Accommodations are available for both permanent and temporary disabilities. It should be noted that	
common illnesses such as a cold or the flu do not constitute a disability. Use of the SAS Exam Centre	
requires students to book their exams at least 7 days in advance, and not later than the 40th Class Day.	
More information: www.uoguelph.ca/sas	
Academic Misconduct: The University of Guelph is committed to upholding the highest standards of	See Note 2 on
academic integrity and it is the responsibility of all members of the University community – faculty, staff,	other side.
and students – to be aware of what constitutes academic misconduct and to do as much as possible to	
prevent academic offences from occurring. University of Guelph students have the responsibility of	
abiding by the University's policy on academic misconduct regardless of their location of study; faculty,	
staff and students have the responsibility of supporting an environment that discourages misconduct.	
Students need to remain aware that instructors have access to and the right to use electronic and other	
means of detection. Please note: Whether or not a student intended to commit academic misconduct is	
not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students	
from responsibility for verifying the academic integrity of their work before submitting it. Students who	
are in any doubt as to whether an action on their part could be construed as an academic offence should	
consult with a faculty member or faculty advisor. The Academic Misconduct Policy is detailed in the	
Undergraduate Calendar.	
Recording of Materials: Presentations which are made in relation to course work—including lectures—	
cannot be recorded or copied without the permission of the presenter, whether the instructor, a	
classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless	
further permission is granted.	
Resources: The Academic Calendars are the source of information about the University of Guelph's	
procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.	1

DETAILED COURSE OUTLINE:



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