

Course Outline Form: Winter 2016

General Information

Course Title: Advanced Calculus II

Course 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.

Credit Weight: 0.5

Academic Department (or campus): Mathematics & Statistics

Campus: University of Guelph

Semester Offering: Winter 2016

Class Schedule and Location: Tues/Thurs, MINS 106, 4:00-5:20

Instructor Information

Instructor Name: H. Kunze

Instructor Email: hkunze@uoguelph.ca

Office location and office hours: MACN 507, Wednesday, 8:30-10:30

GTA Information

TA has no direct contact with students.

GTA Name:

GTA Email:

GTA office hours and location:

Course Content

Specific Learning Outcomes:

1. Numeracy and Quantitative Skills
2. Critical Thinking
3. Application of Knowledge
4. Knowledge of Methodologies
5. Communication
6. Depth of Understanding

Lecture Content:

The professor will present lectures on the topics listed in the calendar course description. On occasion, the professor may decide that handouts and/or computer demonstrations are appropriate.

Labs:

None.

Course Assignments and Tests:

	Value	Date
5 Assignments	25%	Due Thursdays at start of class
Midterm	25%	Thursday, March 3
Final Exam	50%	Friday, April 22, 11:30-1:30

Final examination date and time: Friday, April 22, 11:30-1:30

Final exam weighting: 50%

Course Resources

The lectures are the primary source of course material.

Required Texts:

No text is required, as the lecture notes will contain all required information.

Recommended Texts:

I have written a four-semester Calculus text book and will make available draft sections for extra reading, examples, and exercises.

Other Resources:**Course Policies****Grading Policies**

The assignments you hand in are expected to contain your own work. Of course, you can talk about the questions with me and with each other, but please make sure that the bulk of the work you submit is truly your own work. There will be low tolerance for plagiarism or what I deem to be excessive collaboration.

Course Policy on Group Work:

No group work.

Course Policy regarding use of electronic devices and recording of lectures

Electronic recording of classes is expressly forbidden.

Additional Course Information

University Policies

Academic Accommodation of Religious Obligations

If you are unable to complete a course requirement due to religious obligations, please let the instructor know within the first two weeks of class. See the academic calendar for more information:

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-accomrelig.shtml>

Academic Consideration

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, id#, and e-mail contact. See the academic calendar for information on regulations and procedures for Academic Consideration:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

A grade of zero is assigned for assignments or tests missed due to unsatisfactorily explained reasons.

Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, 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:
<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Accessibility

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Student Accessibilities Services (SAS) as soon as possible.

For more information, contact SAS at 519-824-4120 ext. 56208 or email csd@uoguelph.ca or see the website: <http://www.uoguelph.ca/csd/>

Course Evaluation Information

Please see <http://www.mathstat.uoguelph.ca/files/TeachevaluationformF10.pdf>

Drop date

The last date to drop one-semester courses, without academic penalty, is **Friday, March 11, 2016**. For regulations and procedures for Dropping Courses, see the Academic Calendar:
<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>