The University of Western Ontario (Western University)

Calculus 2302A, Fall 2019
Intermediate Calculus I

September–December 2019

LECTURES: MWF 1:30-2:20 pm, in AHB-2B04 (Prof. Barron, tatyana.barron@uwo.ca)

TEXTBOOK: *Multivariable Calculus, 8th edition* by J. Stewart, published by Brooks/Cole.

The textbook is required. The student solution manual is recommended.

PREREQUISITES: A minimum mark of 55% in Calculus 1501A/B or Calculus 1301A/B, or Applied Mathematics 1413.

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Unless you have either the requisites for this course or written special permission
from your Dean to enroll in it, you may be removed from this course and it will
be deleted from your record.  This decision may not be appealed.  You will receive
no adjustment to your fees in the event that you are dropped from a course for
failing to have the necessary prerequisites.
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ANTIREQUISITES: Calculus 2502A/B.

COURSE DESCRIPTION: Three dimensional analytic geometry: dot and cross product; equations for lines and planes; quadric surfaces; vector functions and space curves; arc length; curvature; velocity; acceleration. Differential calculus of functions of several variables: level curves and surfaces; limits; continuity; partial derivatives; tangent planes; differentials; chain rule; implicit functions; extrema; Lagrange multipliers.

We will cover most of Chapters 12, 13, 14 of the textbook.
If you are unsure whether you should be taking Calculus 2302A or 2502A, please check the course prerequisites and your module requirements and/or speak with an academic counsellor. We will discuss the differences between the two courses at the first lecture.

WHAT IS EXPECTED OF THE STUDENT: Students are expected to attend all lectures, complete all assignments and write all examinations. Solutions of collected homework problems must be written neatly, and handed in by the deadline. Late assignments will not be accepted.

EVALUATION OF STUDENT PERFORMANCE:
assignments 25%
midterm exam (**October 22, 2019, 7:00-9:30 pm; in SSC 2024**) 35%
final exam (3 hours, to be scheduled by the Registrar's office) 40%

COURSE WEBPAGE: course information will be available on the owl website.

ACCOMMODATION AND ACCESSIBILITY:
If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or supporting documentation to the Academic Counselling Office of your home faculty as soon as possible. If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in NCB 280 and can be contacted at scibmsac@uwo.ca
Their website is `http://uwo.ca/sci/counselling/`

For further information, please consult the university's medical illness policy at
`https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Consideration_for_absences.pdf`

The Self Reported Absence option (page 3 of this policy) does **NOT** apply to the midterm exam and it does not apply to the final exam.

Approval of *accommodation for the midterm exam or for the final exam* can only be made by the student's Dean's Office/Academic Counselling unit. It is the student's responsibility to make alternative arrangements with the instructor, once the accommodation has been approved and the instructor has been informed.

If you missed or plan to miss the *midterm exam*, please contact your faculty's Academic Counselling Office as soon as possible, and also inform the instructor.

If you miss the *Final Exam*, please contact your faculty's Academic Counselling Office as soon as you are able to do so. They will assess your eligibility to write the Special Exam (the name given by the university to a makeup Final Exam). Course instructors are not able to grant permission for a student to miss or re-schedule a final examination. Students who plan to miss a final examination should contact an academic counsellor at their home Faculty Dean's office.

You may also be eligible to write the Special Exam if you are in a Multiple Exam Situation (see `http://www.registrar.uwo.ca/examinations/exam_schedule.html`).

ACADEMIC POLICIES:
The website for Registrarial Services is http://registrar.uwo.ca

In accordance with policy, http://www.uwo.ca/its/identity/activatenonstudent.html ,
the centrally administered e-mail account provided to students will be considered the individuals official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

The use of calculators and other electronic devices will **not** be permitted on the examinations.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what const itutes a Scholastic Offence, at

> `http:// www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf`

SUPPORT SERVICES:
Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 if you have questions regarding accommodation.

The policy on Accommodation for Students with Disabilities can be found here:
`www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_disabilities.pdf`

The policy on Accommodation for Religious Holidays can be found here:
`http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf`

Learning-skills counsellors at the Student Development Centre (http://www.sdc.uwo.ca) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.

Students who are in emotional/mental distress should refer to Mental Health@Western (`http://www.health.uwo.ca/mental_health`) for a complete list of options about how to obtain help.

A list of policies common to undergraduate courses taught by the Department of Mathematics can be found at
`https://www.math.uwo.ca/undergraduate/2019-20_math_common_course_policies.html`