

Western University  
London, Canada  
Departments of Applied Mathematics and Mathematics

## Calculus 1000B – Winter 2018-2019

**Instructor:** Natalia Kiriushcheva

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**Classes:** Section 001 M W 7 – 9 p.m., Section 003 M Tu W Th 8:30 – 9:30 a.m.

### Basic Course Information

Textbooks     *Single Variable Calculus: Early Transcendentals* (8<sup>th</sup> edition), by James Stewart  
(Brooks/Cole)

*Student's Solutions Manual* for 8<sup>th</sup> edition of Stewart, by Anderson, Cole & Drucker  
(Brooks/Cole)

Comes with access to **Enhanced Web Assign** (which is **required** for completing the  
online assignments)  
and electronic “You Book” Access Card

**OR**

Enhanced Web Assign and electronic “You Book” Access Card

### Optional

*Lecture Notes for Calculus Volume 1* (7<sup>th</sup> edition), by R. N Bryan (Custom Course  
Materials)

*Midterm Tests and Final Exams for Calculus 1000A/B*, by R.N. Bryan (Custom Course  
Materials)

Pre-requisites     Ontario Secondary School MCV4U or Mathematics 0110A/B

Anti-requisites     The former Calculus 1100A/B, Calculus 1500A/B, Applied Mathematics 1413.

Website            <https://owl.uwo.ca/portal>

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.

### Course Syllabus

#### Description

Review of limits and derivatives of exponential, logarithmic and rational functions. Trigonometric functions and their inverses. Differentiation rules. The derivatives of the trigonometric exponential functions and their inverses. L'Hospital's rules. The definite integral. The Fundamental Theorem of

Calculus. Simple substitution. Applications including areas of regions and volumes of solids of revolution.

### Expectations

- Students are expected to have read the appropriate sections of Chapters 1-6 and to have completed practice problems assigned by their instructor. Additional reading and practice problems may be assigned.
- Students should note that success in university-level mathematics courses often requires self-directed exploration of topics. Successful students often do more than simply repeat the solutions to assigned problems over and over again and nod along with their instructor in lecture.
- Students are expected to use help resources available to them (especially Help Centre) when problems arise. It is often better to tackle difficult material when problems with understanding occur. Putting off questions until exam time is an ill-advised study strategy. Students that work at a consistent pace throughout the term and make a consistent effort to understand material tend to achieve better results.

### **Evaluation**

Your final grade will be calculated as follows:

Term Test 1	20%	February 8, 7 – 8:30 p.m.
Term Test 2	20%	March 15, 7 – 8:30 p.m.
Final Exam	40%	To be scheduled by Registrar
Online Assignments	20%	WebAssign

### Midterm Examinations

At the midterms you will write a 90-minute exam-style test. The locations of the exams will vary depending on your section and surname. Specific details on the tests will be provided closer to the exam date. The exams will be closed book, no notes, no calculators or any other electronic devices will be permitted.

Provided you have followed the procedures outlined below (see addenda), and provided you have secured the approval of your dean, you can write a make-up test. Final exam marks may replace midterm marks for those with legitimate reasons for missing make-ups.

### Final Examination

The Final Examination will be three hours and will be cumulative. The exam will be closed book, no notes, no calculators or any other electronic devices will be permitted. The Final Examination will be held during the Final Examination period and will be scheduled by the university. Students seeking a make-up exam for any reason must secure approval from the appropriate dean (see addenda).

### Online Assignments

Online assignments will be administered through **Enhanced WebAssign**, so the purchase of the **Access Code is required**. There will be 6 by-weekly assignments, 5 the best will be counted toward the assignment mark.

## **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 and contact your instructor immediately. If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in WSC 140, and can be contacted at [scibmsac@uwo.ca](mailto:scibmsac@uwo.ca) .

Academic consideration forms for the Faculty of Science are available at [http://www.uwo.ca/sci/undergraduate/academic\\_counselling/forms.html](http://www.uwo.ca/sci/undergraduate/academic_counselling/forms.html) .

For further information, please consult the university's medical illness policy at [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_medical.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf).

Approval of accommodation for any course component worth 10% or more can *only* be made by the student's home faculty Dean's Office/Academic Counselling unit. Accommodation for work worth less than 10% is at the discretion of your section instructor (the decision on granting accommodation can be made by the instructor or the student may be referred by the instructor to the student's home faculty Dean's Office/Academic Counselling unit).

It is the student's responsibility to make alternative arrangements with his or her instructor once the accommodation has been approved and the instructor has been informed.

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).

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](http://www.registrar.uwo.ca/examinations/exam_schedule.html)).

## **ACADEMIC POLICIES:**

The website for Registrar Services is <http://www.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 individual's 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 for the midterm test and the final examination.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at this website: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf) .

Computer-marked, multiple-choice tests and exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

## **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](http://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](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](http://www.health.uwo.ca/mental_health)) for a complete list of options about how to obtain help. Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.



