

THE UNIVERSITY OF WESTERN ONTARIO
LONDON CANADA
DEPARTMENTS OF APPLIED MATHEMATICS AND MATHEMATICS

Calculus 1000A

September-December 2019

COURSE SCHEDULE:

SECTION	INSTRUCTOR	DAYS	TIME	LOCATION
001	Natalia Kiriushcheva	M/Tu/W/Th	8:30–9:30AM	UCC-146
002	Janusz Adamus	M/Tu/W/F	12:30-1:30PM	SEB-1059
003	Andrew Herring	M/W/Th/F	1:30-2:30PM	NCB-113
004	Natalia Kiriushcheva	M/W/Th/F	1:30-2:30PM	SEB-1059
005	Mohsen Mollahajighaei	M/Tu/W/Th	9:30-10:30AM	UCC-146
006	Asghar Ghorbanpour	M/Tu/W/F	8:30-9:30AM	WSC-55
007	Apurva Nakade	M/W	7:00-9:00PM	WSC-55
008	Martin Pinsonnault	M/W/F Tu	11:30-12:30PM 11:30-12:30PM	TC-141 WSC-55
009	Allan Maclsaac	M/W/Th/F	10:30-11:30AM	AHB-1R40
011	Luis Scoccola	Tu/Th	7:00-9:00PM	NSC-1
012	Ahmed Ashraf	M/W/Th/F	8:30-9:30AM	SEB-1059

Course Coordinator: J. Adamus (Department of Mathematics)

TEXTBOOK: *Single Variable Calculus: Early Transcendentals*, 8th Edition, by James Stewart (publ. Cengage/Brooks Cole).

OTHER (OPTIONAL) MATERIALS AVAILABLE IN CAMPUS BOOKSTORE:

- *Student Solutions Manual* for 8th edition of Stewart
- *Calculus... Fear No More*, by Miroslav Lovric
- *Lecture Notes for Calculus Volume 2*, by R.N. Bryan (Custom Course Materials)
- *Midterm Tests and Final Exams for Calculus 1000A/B*, by R.N. Bryan (Custom Course Materials).

PREREQUISITES: Ontario Secondary School MCV4U or Mathematics 0110A/B.

ANTIREQUISITES: Calculus 1500A/B or the former 1100A/B, Applied Mathematics 1413.

SENATE POLICY ON PREREQUISITES: 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 WEB PAGE: <https://www.uwo.ca/math/faculty/adamus/teaching/1000a2019/index.html>

In addition, your instructor will provide the address of the OWL page for your section. Students are responsible for checking OWL on a regular basis for news and updates.

COURSE OUTLINE: Review of limits and derivatives of exponential, logarithmic and rational functions. Trigonometric functions and their inverses. The derivatives of the trig functions and their inverses. L'Hospital's rules. The definite integral. Fundamental Theorem of Calculus. Simple substitution. Applications of integration, including areas of regions and volumes of solids of revolution.

We shall cover selected topics from Chapters 1-6. See the list of *Recommended Practice Problems* for more details.

WHAT IS EXPECTED OF THE STUDENT: 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 OF STUDENT PERFORMANCE: Your final grade will be calculated as follows

Midterm Examination	35%
Final Examination	50%
Quizzes/Assignments	15%

Midterm Exam: At the mid term you will write a two-hour exam-style test. This Midterm Exam will take place on **Friday, Oct. 25, 2019, 7:00–9:00PM**. The location will vary depending on your section and surname. Specific details on the test will be provided by your instructor closer to the exam date. The exam will be closed book, no notes, no calculators or any other electronic devices will be permitted.

Final Exam: 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 Registrar. Students seeking a make-up exam for any reason must secure approval from the appropriate dean.

Quizzes/Assignments: Quizzes/Assignments are section-specific and results will be adjusted to ensure fairness among sections. Your instructor will provide you with details relevant to your section.

ACCOMMODATION AND ACCESSIBILITY: If you are unable to meet a course requirement due to illness or other serious circumstances, you must seek approval for the absence as soon as possible. Approval can be granted either through a self-reporting of absence or via the Dean's Office/Academic Counselling unit of your Home Faculty. 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.

For further information, please consult the university's policy on academic consideration for student absences:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Consideration_for_absences.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 their 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).

ACADEMIC POLICIES: The website for Registrarial 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 their 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.

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 Student Accessibility Services (SAS) at 661-2147 if you have any questions regarding accommodations.

The policy on Accommodation for Students with Disabilities can be found here:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic%20Accommodation_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.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.