

calculus (plural *calculi* or *calculuses*)

(mathematics) a. Differential calculus and integral calculus considered as a single subject; analysis. b. Any formal system in which symbolic expressions are manipulated according to fixed rules.

(medicine) A stony concretion that forms in a bodily organ, such as a kidney stone. (dentistry) Deposits of calcium phosphate salts on teeth.

Course description: Review of trigonometry and other Precalculus topics. Limits, continuity, derivative. Differentiation of elementary functions. Antidifferentiation. Applications. (4 credits)

Prerequisite: a course in functions.

Restriction: Not open to students who have taken CEGEP objective 00UN or equivalent. Not open to students who have taken or are taking MATH 122, except by permission.

Lectures: Mon, Wed, Fri 11:35–12:25 (STBIO S1/4) and Mon 1:35–2:25 (MCMED 522)

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use subject "Math 139: ..."

Textbook: Stewart's *Single Variable Calculus*. The 8th edition is recommended, but earlier editions should be quite fine. The student solutions manual might prove useful.

Grade: 15%WebWork + 20%Midterm + 65%Final Exam.

Exams: Neither calculators, nor formula sheets are allowed during exams. 2-hour long midterm, comprehensive 3-hour long final exam.

Advice: Practice the course material by solving many exercises. Practice the course material by solving many exercises. Practice the course material by solving many exercises.

Attend classes and tutorials. Showing up is just a part of the process. Come prepared, take good notes, and stay focused. Keep your cell phone away. Ask questions and answer questions. Enjoy!

MyCourses: Outside of the classroom, this is the main channel of communication between instructor and students. Announcements, such as time, location and room allocations for the midterm exam, are posted there. I will post suggested exercises *after* each lecture, as well as suggested readings *before* each lecture. Documents, such as this syllabus, or the take-home quizzes, are also posted there.

Take-home quizzes: Every two weeks, a short quiz will be posted on MyCourses. This is a practice and self-diagnosis tool, meant to accustom you with the exam context. Ideally, you should sit down and work, free of distractions, and without notes, formula sheets or calculators, for the suggested amount of time. The quizzes are not part of the formal assessment in this course. Model solutions will be provided.

University Policy: McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures.

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.

In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.