

## **MAT1332: Calculus for the Life Sciences II**

**Professor:** Dr. Robert Smith? (the question mark is part of my name)

**Location:** 106-555 King Edward Ave (three doors down from the math dept), x3740

**Lectures:** Mondays 10:00–11:30 (MNT 202), Wednesdays 8:30–10:00 (MNT 202)

**Office hours:** Mondays 15:30–17:20, or by appointment.

**Textbook:** Calculus for the Life Sciences: Modelling the Dynamics of Life by Frederick Adler and Miroslav Lovric (first or second edition), with two add-on modules: Linear Algebra and Functions of Several Variables.

**Content:** Integrals, differential equations, complex numbers, linear algebra, multivariable calculus, stability in linear and nonlinear systems.

**Assessment:** Two midterms (40%), final exam (60%). There will be no makeup tests. Any student who scores less than 40% on the final exam will receive an automatic F, regardless of their marks in assignments or midterms. Any student who scores less than 45% on the final exam cannot receive a higher grade than an E.

**Midterm dates:** February 14, 2017 and March 28, 2017

**Life Sciences Penalty:** To incorporate the “Life Sciences” part of the course, in addition to biologically motivated problems, there will be a penalty for biologically incorrect statements that are obviously and verifiably false.

**Virtual Campus:** Please ensure you are registered in the course and in the correct section. All assignments, lecture notes and other announcements will be communicated through Virtual Campus. It is your responsibility to check for announcements.

**Calculators:** Only the faculty-approved calculators (TI-30X, TI-34X, Casio FX-260X and Casio FX-300X, where X can be replaced by any letters) are permitted on midterms and the final. Any other calculator found during the midterm or final exam will be confiscated. No exceptions. No excuses.

**Class Etiquette and Respect:** In a large class, we all depend on a climate of mutual respect and engagement to make this a productive and exciting intellectual environment. Please respect these basic guidelines.

**Grade changes:** If you feel there is a problem with your grade on an assignment or midterm, you must write one paragraph explaining each error. Then, please hand in your paragraph of explanation in addition to the original

assignment or midterm for grade reconsideration. You must allow at least one week for grade reconsideration. Re-grading can only be done by this method. Please do not approach me or your TA during class times to discuss grade changes. Once one week has passed after you have turned in your paragraph and the original assignment, you can come to the next office hour to discuss your grade.

**Plagiarism:** Please note that the University of Ottawa has a very strict policy on plagiarism and academic fraud. If you are found guilty of either, the University can give you an F for the course, assign additional credit hours on top of your degree requirements, and/or expel you from the University and note the reason on your transcript. This includes copying other assignments, or reproducing any work from another source without citation. Please read the University policy on academic fraud included with the course material and ask me if there is anything you do not understand or consult <http://sass.uottawa.ca/sites/sass.uottawa.ca/files/plagiarism.pdf>. Any students caught cheating during a test will be asked to leave and will have their cases referred to the Faculty.

**Contact:** If you have questions about the class or assignments: First, check Virtual Campus. Your question may be answered there. Second, ask your TA or one of your classmates. Learning often happens collaboratively. Be sure to have at least one friend in case you miss a class. Third, you are always welcome to discuss class content or assignments with me in person during office hours. You do not need an appointment during office hours. Due to the large number of students in this course, I will not be able to answer emails from students.

**Electronic devices:** Students are required to turn off all electronic devices such as cell phones, ipods and blackberrys. If you need your cell phone on because you have children or need to remain in contact with someone because of a medical emergency, inform me at the beginning of the class and please leave the cell phone on vibrate.

**Harrassment:** The University of Ottawa does not tolerate any form of sexual violence. Sexual violence refers to any act of a sexual nature committed without consent, such as rape, sexual harassment or online harassment. The University, as well as student and employee associations, offers a full range of resources and services allowing members of our community to receive information and confidential assistance and providing for a procedure to report an incident or make a complaint. For more information, visit [www.uOttawa.ca/sexual-violence-support-and-prevention](http://www.uOttawa.ca/sexual-violence-support-and-prevention)