MAT 3395: Introduction to Mathematical Models

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

Email: stacey.smith@uottawa.ca

Lectures: Tuesdays 11:30–12:50 in CBY B202 and Fridays 1:00–2:20 in SMD 427.

The first week will be on Zoom. Login details are found in Brightspace. In-person classes will resume January 16. Note that there are no classes on

public holidays or during reading week.

Office hours: Wednesdays 10:15–11:30 or by appointment in STEM 529.

Texbook: *Modelling Disease Ecology with Mathematics* (second edition) by Stacey

Smith? (American Institute of Mathematical Sciences, 2017). Available

free online.

Content: We will cover a variety of topics on mathematical modelling of infectious

diseases using Matlab (simple epidemics, the basic reproductive ratio,

vector-borne diseases, curve-fitting, bifurcations, chaos).

Assessment: Weekly assignments (20%), Midterm (40%), Project presentation (15%),

Final project (25%)

Midterm: Tuesday, March 26 (11:30am)

Class Etiquette and Respect: 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. This can be

done in the body of an email or as an attachment.

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 have their cases referred to the

Faculty.

Note: Any changes or announcements will appear in Brightspace. It is your

responsibility to check for announcements.

Language: All students have the right to produce their written work and to answer

examination questions in the official language of their choice.

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. For more

information, visit

www.uOttawa.ca/sexual-violence-support-and-prevention