



## **MA101A – Calculus I for the Natural Sciences**

Fall Term, 2017

### **Calendar Description**

Review of algebra and trigonometry. Differential calculus of the algebraic, exponential, logarithmic, trigonometric and inverse trigonometric functions of a single variable; introduction to integral calculus; techniques of integration. Introduction to ordinary differential equations. Polar coordinates. Complex numbers. Applications to problems in the natural sciences are emphasized.

### **Instructor**

Fei Xu (PhD)

Office: LH3069 (Lazaridis Hall)

Telephone: x4730

All communication is to be made only by email and only to the email address listed below.

Email: [fxu@wlu.ca](mailto:fxu@wlu.ca)

Office Hours: Monday and Wednesday 9:30 a.m. – 10:20 a.m., or by appointment.

### **Lectures**

- Monday, Wednesday and Friday 12:30 p.m. – 1:20 p.m. in 1C16 (Arts Building)

### **Lab Coordinator**

Trevor Saunderson

Email: [tsaunderson@wlu.ca](mailto:tsaunderson@wlu.ca)

Office: LH3048 x3012

### **Textbook**

- *Calculus for Biology and Medicine*, by Claudia Neuhauser, Third Edition.

### **Calculators**

Students may only use the approved scientific calculator, Casio FX-30MS Plus, on course tests and the final examination. No other calculator is allowed. It is available for purchase at the campus bookstore.

### **MyLearningSpace**

Materials related to this course and the full course outline will be posted on the MA101 [MyLearningSpace](#) website. You are responsible for checking here on a regular basis for important announcements.

## Evaluation

A final mark out of 100 will be calculated as follows:

• Clicker Questions: .....	10%
• WeBWork Assignments: .....	10%
• Lab-Problem Sessions + Quizzes: .....	20%
• Midterm: (Wednesday, Oct. 25, 7 p.m. – 8:20 p.m. in SBE1220 (Schlegel)) .....	25%
• Final Examination: (2.5 hours; date and time TBA) .....	<u>35%</u>
	100%

The final mark will be converted to a letter grade in accordance with the conversion table of the current Undergraduate Calendar.

This document is a summary of the course outline for MA101 and is provided for the convenience of students.