University of Regina
Mathematics 103-991 – Syllabus
Applied Calculus I, Fall 2019
Lecture: MW 7:00 pm - 8:15 pm, Classroom Building 125
Lab: W 5:30 pm - 6:20 pm, Classroom Building 127

INSTRUCTOR:
Name: Dr. Paul Arnaud Songhafouo Tsopméné
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Office hours: MW 11:30 am - 12:30 pm & M 9:30 am - 10:30 am, or by appointment

TA's:
Lab instructor: Neha Joshi (njp008@uregina.ca)
Marker: Rumi Patel (rumitpatel2303@gmail.com)

TEXT/MATERIAL/PREREQUISITES:
Text: Applied Calculus: For Business, Economics, and the Social and Life Sciences, by Hoffman, Bradley, Sobecki, and Price; 11th Edition, McGraw-Hill.

Course Description and Purpose: Functions and Limits, Derivatives, Applications of the Derivative, Exponential and Logarithmic Functions, Integration.

The **purpose** of this course is to introduce non-Science students to the methods and applications of calculus. This course is not intended as preparation for subsequent courses in theoretical calculus.

Prerequisites: Precalculus 30, or Math B30 with a grade of at least 65%, or AMTH 092 with a grade of at least 80%, or Math 102.

OBJECTIVES:
As a result of this course, you will be able to apply several computational techniques to solve exercises involving limits, derivatives and integrals as well as to solve practical problems.

EXAMS/QUIZZES:
Quizzes: There will be 5 quizzes (20 minutes each), and these will hold in the Lab.
Quiz Dates: September 18, October 2, October 23, November 13, November 27.

Midterms: There will be 2 midterms (50 minutes each), and these will hold in the Lab too.
Midterm Dates: October 16, November 20.

Final Exam: There will be a common comprehensive final exam on **December 13** at **7 pm** (location TBA).

MARKING:
Quizzes: The quizzes worth altogether **20%** of your total mark. The lowest grade will be dropped (that is, only 4 quizzes will count towards your total quiz grade).

Midterms: The midterms worth altogether **30%** of your total mark.

Final Exam: This will be a 3-hour exam, worth **50 %** of your total mark.

RECOMMENDED PROBLEMS:
At the end of each week I will post online a collection of exercises. These are for your benefit and are necessary to help comprehend the material discussed in class. I will not collect these exercises. Before you try working the exercises, however, do the reading assignment. Reading the notes or the textbook will help you review the important concepts before you start on the exercises.

KEEPING UP-TO-DATE:
This is an introductory course in applied calculus, and there is a lot of material to be covered. Most assigned problems will be computational in nature, however that does not mean they will be numerical. Instead, they will require symbolic manipulation and rigorous, careful use of theoretical constructs. Consequently, it is vital that students read the appropriate textbook sections before and after each lecture, and attempt the relevant homework problems. Keeping up-to-date and managing your time wisely with the material is essential.

OTHER POLICIES and COURSE INFORMATION:

- A **course website** has been set up, via UR Courses, and this is the site you should consult for additional information about our course. I will update the site regularly, with notes, quizzes, and examination information. Please be sure to consult our course website for additional useful information on various university services, along with further information relevant to Mathematics 103.

- The **Lab section** associated with this class is Lab-992, which runs on Wednesday's from 5:30 pm-6:20 pm (and begins in the **2nd week of the semester**). **Attendance in the lab is critical** as material covered in the lab will be chosen to directly prepare students for upcoming quizzes and exams.

- Essentially, use of a basic **scientific calculators** is permitted during exams. Furthermore, if I am not sure if your calculator should be permitted, I will swap it for a permissible one.

- The use of any communication-capable or assisting device (cell phone, smart phone, laptop, electronic translator) during exams is strictly prohibited. This will be viewed as a form **Academic Misconduct**. Academic misconduct on a quiz or an exam will be given a grade of 0 for that exam and the matter will be dealt with according to the appropriate academic regulations regarding academic misconduct in the University of Regina Academic Calendar, Section 5.13.

- Anyone wishing to write the final exam who is unable to attend at the time specified above must obtain the right to a **deferred exam** according to the appropriate academic regulations in the University of Regina Academic Calendar, Section 5.7.

- If there is any student in this course who, because of a disability, may have a need for certain academic accommodations, please contact **Centre for Student Accessibility** at 585-4631 or email: **accessibility@uregina.ca**.