- Lectures: Lectures will be on Mon, Wed, Fri from 9:30-10:20 in MC 4059. The tutorial will be on Thurs 2:30-3:20 in RCH 103. During the lectures, we will cover all the theory and present some examples. During the tutorial we will present additional examples.
- Instructor: Stephen New, email snew@uwaterloo.ca, office hours Mon, Wed, Thu, Fri 12:30-2:00 in MC 5419.

Website: Course materials can be found at https://www.math.uwaterloo.ca/~snew/

Text: There is no required text. Lecture notes will be provided. Some exercises may be added to the lecture notes. You must read and understand all of the lecture notes. You should also work on the exercises: solve as many as you can, and read and understand all of the solutions. A suggested book is Calculus: Early Transcendentals, by James Stewart.

Course Outline: We will cover all of the material from the posted lecture notes.

- Chapter 1: The Riemann Integral
- Chapter 2: Methods of Integration
- Chapter 3: Approximate and Improper Integration
- Chapter 4: Applications of the Definite Integral
- Chapter 5: Introduction to Differential Equations
- Chapter 6: Parametric and Polar Equations
- Chapter 7: Sequences and Series
- Chapter 8: Power Series
- Assignments: There will be about five assignments to be submitted using Crowdmark. The lowest assignment grade will be not contribute to the final course grade (if a student misses one assignment due to illness, or any other reason, then that assignment grade of zero will be the lowest grade, so it will be excluded). It is in each student's best interest to try to solve all the assignment problems independently. Students are permitted to discuss and to help one another with the assignment problems, but every student must write up all solutions in their own words (copying another student's assignment is not permitted). Any help that you receive from friends, websites or other sources should be clearly acknowledged at the start of your solution to any problem on which you received assistance.

MAPLE: Some assignments may include problems to be solved using MAPLE.

- Tests: There will be a midterm test on Monday October 21st, from 7:00-8:50 pm in rooms DWE 1501, 3519 and 3522, and there will be a final exam, to be scheduled later. The exam will cover all of the course material. Calculators will not be allowed on tests.
- Course Mark: The final course grade G will be given by the maximum of the two marking schemes

$$G = 15\% A + 30\% T + 55\% E \qquad \qquad G = 10\% A + 15\% T + 75\% E$$

where A is the average of the assignment marks (with the lowest mark excluded), T is the mark on the term test, and E is the mark on the final exam.

- Persons with Disabilities: Access Ability Services located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the Access Ability Services at the beginning of each academic term.
- Academic Integrity: In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. (Check www.uwaterloo.ca/academicintegrity/ for more information.)
- Grievance: A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70, Student Petitions and Grievances, Section 4, http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm. When in doubt please be certain to contact the department's administrative assistant who will provide further assistance.
- Discipline: A student is expected to know what constitutes academic integrity to avoid committing academic offenses and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course professor, academic advisor, or the undergraduate associate dean. For information on categories of offenses and types of penalties, students should refer to Policy 71, Student Discipline,

http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm.

For typical penalties check Guidelines for the Assessment of Penalties,

http://www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm.

Appeals: A decision made or penalty imposed under Policy 70, Student Petitions and Grievances (other than a petition) or Policy 71, Student Discipline may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72, Student Appeals, http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm.