

THE UNIVERSITY OF WESTERN ONTARIO
London Ontario
APPLIED MATHEMATICS 1413
Applied Mathematics for Engineers I
Course Outline 2019-2020

Instructor:

Section 001: Dr. P. Yu: M W F 1:30pm-2:30pm TC-141 pyu@uwo.ca MC 283

Section 002: Dr. A.B. MacIsaac: M W F 3:30pm-4:30pm, SEB 2200 allanb@uwo.ca MC 285

Section 003: Dr. B. Tudose: M W F 3:30pm 4:30pm TC-141 btudose@uwo.ca MC 286

Tutorials: 004- Thursday 8:30am-9:30am SEB 2202
005- Thursday 11:30am-12:30pm FNB 1240
006- Tuesday 1:30pm-2:30pm FNB 1240
007- Friday 1:30pm-2:30pm SSC-2032
008- Monday 4:30pm-5:30pm FNB 1240
009- Thursday 2:30pm-3:30pm FNB 1240
010- Tuesday 9:30am-10:30am FNB 3210
011- Friday 1:30pm-2:30pm SEB 2202

Office Hours: TBD by Instructor (section specific)

Texts:

Calculus: A Complete Course, 9th edition, Adams and Essex, ISBN: 0134154363 (Required)

MyMath Lab course code 2019: macisaac49624 (may be used by students in all sections)

(8th Edition will be Okay. Adams and Essex is available in Book Store and Online in various formats)

Additional Texts for more help: (Optional) <https://openstax.org/subjects/math> (Multiple Volumes)

Overview of the Course: The calculus of functions of one and more variables with emphasis on applications in Engineering. This course is a suitable prerequisite for any course which lists Calculus 1000A/B plus Calculus 1501A/B.

- Antirequisite(s): Calculus 1000A/B, 1100A/B, 1301A/B, 1500A/B, 1501A/B, Mathematics 1225A/B.
- Prerequisite(s): One or more of Ontario Secondary School MHF4U, MCV4U, or Mathematics 0110A/B.
- Extra Information: 3 lecture hours, 1 tutorial hour, 1.0 course. For students in Engineering only.

The course will cover selected material in Preliminaries, Appendices I-III, and Chapters 1-13 in Calculus by Adams and Essex. A list of suggested exercises will be provided; it is strongly recommended that you solve as many of them as possible.

Method of Evaluation:

20% Quizzes or Assignments (approximately one every two weeks, section specific)

40% Midterm Exam – December Examination Period (Multiple Choice)

40% Final Exam - April Examination Period (Multiple Choice)

Examinations will be closed book. No computational aids will be permitted. No phones, no calculators, no smart watches.

There will be no 100% option for the final exam.

Missing Quizzes and Exams:

Missing an exam or quiz will result in a grade of zero for that exam or quiz, unless permission is granted from Engineering Student Services. If permission is granted, a prorated mark will be assigned. There will be no makeups for quizzes or midterms.

Registration in Tutorials and Lecture Sections

Students will not receive credit for writing quizzes or assignments in sections in which they are not registered. Each tutorial session is linked to a particular lecture section and quizzes and assignments will be set according to the instructor of that section. You are expected to know which lecture section and tutorial section you are registered in and your attendance at each is required.

Currently Required Language for All Course Outlines

Responsibility for checking prerequisites: Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

Statement on academic offences: Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

Use of plagiarism-checking software: All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>).

Use of cheating-analysis software: Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

Statement on services for students in emotional/mental health distress: Students who are in emotional/mental distress should refer to Mental Health@Western <http://www.uwo.ca/uwocom/mentalhealth/> for a complete list of options about how to obtain help.

Accessibility statement: Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Student Accessibility Services (SAS) at 661-2147 if you have any questions regarding accommodations.