

MATH 1115.03 Syllabus — Term A, Summer A 2011 — Neil A. McKay

Title: Mathematics for Commerce

Section: 01

CRN: 30323

Duration: May 09 – June 24, 2011 (7 weeks)

Semester: 2010/2011 Summer (Term A)

Times: Monday and Wednesday, 1805–2045.

Classroom: Room C202, LSC Common Area, Dalhousie University.

Website: <http://www.mathstat.dal.ca/~nmckay/teaching/m1115/summer2011>

Calendar Description: An introduction to matrices, linear programming, mathematics of finance, probability and differential calculus. All topics are taught with an emphasis on applications to business.

Exclusions: MATH 1110.03, MATH 1120.03. *This class may not be used to partially satisfy the BSc Mathematics requirements.

Prerequisites: Nova Scotia Mathematics advanced 11 or 12 or equivalent. (from Dal Online)

Textbook: *Introductory Mathematical Analysis For Business, Economics and the Life and Social Sciences* (Second Custom Edition for Dalhousie University) by E. F. Haeussler Jr., R. S. Paul, and R. J. Wood; published by Prentice Hall, 2011

Instructor

Name: Mr. Neil A. McKay

Department: Mathematics and Statistics

Office: Room 327, Chase Building

Email: nmckay@mathstat.dal.ca

Telephone: None

Website: <http://www.mathstat.dal.ca/~nmckay/>

Office hours: Tentatively: Monday and Wednesday 1400–1600, or by appointment (in-class or by email).

Department Information

Website: <http://www.mathstat.dal.ca>

Main Office: Room 219, Chase Building

Learning Centre

Website: <http://www.mathstat.dal.ca/learning/learningcenter.html>

Purpose: A free department-run service to help students enrolled in mathematics courses.

Location: Room 119, Chase Building

Hours: MTWRF 1130–1330 and MW 1600–1800.

Tentative schedule

Week	Topic	Monday	Wednesday
1	Matrix Algebra	Sections 6.1, 6.2, 6.3	Section 6.4, 6.5, 6.7
2	Finance, Linear Programming	Sections 5.1, 5.2, 5.3, 5.4	Sections 7.1, 7.2, 7.3, 7.4
3	Counting and Probability	Victoria Day	Sections 8.1, 8.2, 8.3
4	Probability and Statistics	Sections 8.4, 8.4, 8.7	Midterm
5	Limits and Differentiation	Sections 10.1, 10.2, 10.4	Sections 11.1, 11.2, 11.3, 11.4
6	Differentiation and Sketching	Sections 11.5, 12.1, 12.2, 12.3	Sections 12.7, 13.1, 13.2
7	Sketching and Review	Sections 13.3, 13.6	Final

Assessment Components

Assignments Approximately weekly, students will submit a complete, correct, and well-written solution to an assigned question. Submissions will receive full marks only if the solution is complete, correct, well-written. A mathematically correct but otherwise lacking solution should approximately half marks.

Quizzes Due to the condensed nature of this course, we will often be covering material in a class that requires understanding of material covered earlier in the class. Therefore, during the break students may be given a problem to work on that will be graded. Students are encouraged to ask the instructor questions.

Exams Exams are individual, in-class, closed book exams. No calculators are permitted. Students are expected to show their Dalhousie ID at all examinations. Exams will occur during the regularly scheduled class time, in the scheduled classroom. The scheduled dates for the exams are given below. The first exam will cover the material covered up to and including the class before the midterm. The final (second) exam will cover the material not covered on the first exam. Exams will be 160 minutes (one full class) in length.

Assessment	Dates (tentative)	Value (%)
Assignments	weeklyish	10
Quizzes	weeklyish	10
Midterm Exam	June 01	40
Final Exam	June 22	40

Ungraded Homework

Practice is key to learning mathematics. Homework is given to direct and encourage practice. This is to ensure students are keeping pace with the material that will need to be understood to teach the next topics and also for review for exams. Students learn well from each other and are thus encouraged to work with each other on homework.

Academic Honesty This statement is based upon the Sample Syllabus Statement from the Academic Integrity office.

The following are some ways that you can achieve academic integrity;

- make sure you understand Dalhousie's policies: <http://academicintegrity.dal.ca/Policies/>,
- do not cheat in examinations or have someone else write your exam,
- do not use the work of another from the Internet or any other source and submit it as your own,
- contact me (the instructor) if you are unsure about an aspect of your work.

For all submitted work for which you have received help outside of class notes and provided texts, it is expected that you note on the front page of your assignment the sources from which you received help. It is expected that you thoroughly understand all of your submitted work.

Your instructor is required to report every suspected offence of academic dishonesty. This process is outlined at: <http://academicintegrity.dal.ca/Files/AcademicDisciplineProcess.pdf>.

Grading policy

Students must understand the material and be comfortable in using it. Examinations will be graded on clarity as well as methodology and correctness.

Grade conversion table

Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F
Range	90-100	85-89.9	80-84.9	75-79.9	70-74.9	65-69.9	62-64.9	58-61.9	55-57.9	50-54.9	0-49.9

Technology policies

Photo, video and audio capture devices are not to be used in class without my written consent. I may also restrict the use of laptops, netbooks, mobile phones, music playback devices and other similar devices if I feel it is disturbing the class. During exams, no such technology will be permitted. Of course, these conditions will be relaxed as necessary when conflicting with accommodation for students with disabilities.

University policies

Students are expected to be familiar with the university calendar. In particular, the regulations at <http://ug.cal.dal.ca/UREG.htm>. The following link is to a FAQ which touches on summer courses in particular: <http://www.registrar.dal.ca/regguide/faq/index.html>.

Students with disabilities: As per the university regulations on Students with (Learning) Disabilities, “Students with disabilities requiring assistance from the University shall initiate contact with the Advisor to Students with Disabilities and make the nature of their disability and/or their needs known; and be expected to undertake a reasonable measure of self-advocacy to ensure they are provided with an equal opportunity by Dalhousie University.” In particular, as this course is condensed, even students who have registered with Student Accessibility Services must ensure the instructor has been adequately informed.

Student Guidance: Dalhousie’s portal to student services is <http://myguide.dal.ca>.

Drop policy: Non-attendance does not, in itself, constitute withdrawal. Withdrawals are effective when a student withdraws from classes on the Web at www.dal.ca/online or written notification is received at the Office of the Registrar.

Important dates

Date	Description
May 09	First class
May 13	Last day to add class
May 23	Victoria Day — no class or office hours
May 25	Last day to drop without ‘W’
June 01	Midterm exam
June 09	Last day to drop with ‘W’
June 22	Final exam