Course Syllabus — Math 1115.03 — Summer Term A 2010 — McKay

Title: Mathematics for Commerce

Subject Code: MATH

Number: 1115

Credit hours: 3

Section: 01

CRN: 30337

Duration: May 10 - June 25, 2010 (7 weeks)

Semester: 2009/2010 Summer (Term A)

Times: Monday and Wednesday, 1805–2045.

Classroom: Room 221C, Sir James Dunn Building, Dalhousie University.

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* (Custom Edition for Dalhousie University) by E.F. Haeussler Jr., R.S. Paul, and R.J. Wood; published by Prentice Hall, 2008

Instructor

Name: Mr. Neil A. McKay

Education BSc (Hons) – Memorial University of Newfoundland; MSc, PhD Candidate – Dalhousie

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 1500–1700, or by appointment (in class or by email).

Department Information

Website: `http://www.mathstat.dal.ca`

Main Office: Room 007, Chase Building

Learning Centre

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

Location: Room 206, Life Sciences Centre (LSC)

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

Hours: MTWR 1100–1400, 1600–1800 and F 1100–1400.

Tentative schedule

Week	Topic	Monday	Wednesday
1	Matrix Algebra	Sections 6.1,6.2,6.3	Section 6.4,6.5,6.7
2	Mathematics of Finance	Sections 5.1,5.2,5.3,5.4	Midterm, Sections 7.1,7.2
3	Linear Programming	Victoria Day	Sections 7.3,7.4
4	Probability and Statistics	Sections 8.1,8.2,8.3	Sections 8.4,8.5,8.7
5	Limits and Differentiation	Midterm, Sections 10.1,10.2,10.4	Sections 11.1,11.2,11.3,11.4,11.5
6	Differentiation and Sketching	Sections 12.1,12.2,12.3,12.7	Sections 13.1,13.2,13.3,13.6
7	Multivariate Calculus	Sections 17.1,17.2,17.3	Final Exam

Note: This is an ambitious schedule designed to cover the material covered in the Fall and Winter semesters, but with functionally less class time. Some material by not be covered and the midterm dates may move.

Assessment Components There are two categories of evaluation in this course: midterms examinations and the final examination. All exams are individual, in-class, closed book exams. No calculator use will be permitted during either midterm examination. Students are expected to show their Dalhousie ID at all midterm examinations. They are explained further below.

Midterm examinations: The first midterm will cover the material covered up to and including the class before the midterm. The second midterm will cover the material covered from the first midterm up to and including the class before the second midterm. Midterms will be 60 minutes in length. A lecture will follow in the remainder of the class after a midterm.

Final examination: The final exam will cover the material covered from the second midterm up to and including the class before the final. The exam will be in the regular classroom at the regularly scheduled time (for the full length of the class) on June 23, 2010.

Assessment	Dates (tentative)	Value(%)
First Midterm Exam	May 19	25
Second Midterm Exam	June 7	30
Final Examination	June 23	45

Grading policy: Students must understand the material and be comfortable in using it. Moreover, they must show that they can. 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

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 10	First class
May 14	Last day to add class
May 19	First midterm exam
May 24	Victoria Day — no class or office hours
May 26	Last day to drop without 'W'
June 7	Second midterm exam
June 10	Last day to drop with 'W'
June 23	Final exam