

MATHEMATICS 115 (V1) – Winter 2008

Elementary Calculus II

Calendar Description:

*3 (fi 6) (either term,3-0-0) Differentiation and integration of trigonometric, exponential and logarithmic functions. Indeterminate forms and improper integrals. Techniques of integration. Application.

Note: This course may not be taken for credit if credit has already been obtained in either of MATH 101 or 118.

Prerequisite: Math 113, 114, 100 or equivalent. It is important that students have a good grasp of the material covered in Math 113/114.

Instructor: Hung Le Pham

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Website: www.math.ualberta.ca/~hlpham (Follow the link to Math 115)

Office Time: **Tue, Thu 11:00 – 12:50** (you are also welcome to drop in at any other time, or you can make an appointment)

Class Time: **Tue, Thu 9:30 – 10:50 (Location: CAB 239)**

Textbook: Either (a) **Thomas' Calculus (Single Variable), 11th edition**, or, (b) **Thomas' Calculus, 11th edition**, both by George B. Thomas, Jr., Maurice D. Weir, Joel Hass, and Davis Frank R. Giordano. *(b) is recommended for students planning on taking Math 214/215.*

Help session: The department of Mathematical and Statistical Sciences also runs walk-in, one-to-one help sessions in ED 751, weekdays from 9:00 am to 3:00 pm

COURSE OUTLINE

Syllabus:

1. Intermediate forms and L'Hopital Rule: 4.6
2. Short review of Chapter 5 on integration and substitution.
3. The second part of 5.6 on area between curves.
4. Applications of definite integrals: 6.1-6.7
5. Transcendental functions: 7.1-7.8
6. Techniques of Integration: 8.1-8.8
7. Further applications of integration: 9.1-9.2, and (optional) 9.5

GRADING (tentative)

Assignments:	10%	
Midterm:	35%	Saturday, March 1, 2008 (10:00 – 10:50)
Final:	55%	Saturday, April 26, 2008 (9:00 –11:00)
Deferred Final:		Saturday, May 10, 2008 (9:00-11:00)

NOTE: Calculators and formula sheets will not be permitted during exams. Don't worry, the exams will not contain extensive arithmetic calculations and complicated formulas.

ASSIGNMENTS

There will be weekly assignments (equal weight). Assignments will be announced in class and also will be posted on the website. The assignments are due at 4:00 PM sharp on the posted due day (normally will be Thursday), and are to be deposited in my homework box for Math 115-V1 on the third floor of CAB. Late assignments cannot be accepted under any circumstances. Once the marker has collected the assignments, it is too late to hand in your work. To help the markers, print **your name** and **student ID** and **assignment number** on the first page, write legibly, present your solutions in order, and staple all pages together. Solutions will be posted on the website after the due date. If you do not understand or agree with the grading of an assignment, please check the prepared solutions; after checking the solutions, if you think an error was made in the grading, please see me.

NOTE 1: "Policy about course outlines can be found in Section 23.4(2) of the University Calendar" (GFC 29 SEPT 2003). Policy about re-examinations can be found in Section 23.5.5 and 182.5.9. Policy about grades can be found in Section 23.4(5)

NOTE 2: "The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behavior (on-line at <http://www.ualberta.ca/secretariat/appeals.htm>) and avoid any behavior which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offense. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University." (GFC 29 SEPT 2003.)

NOTE 3: Students who require accommodations in this course due to a disability affecting mobility, vision, hearing, or mental or physical health are advised to discuss their needs with Specialized Support and Disability Services, 2-800 SUB (phone) 492-3381 or (TTY) 492-7269.