MATH 111 – INTERMEDIATE CALCULUS I

Semester: Fall 2003
Instructor: Alex Degtyarev
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Assistants: *to be announced*

Exams & Grading:
- **1ˢᵗ Midterm** (25%)   October 18, 2002 Saturday
- **2ⁿᵈ Midterm** (25%)   December 6, 2002 Saturday
- **Final Exam** (40%)   *To be announced*
- **Quizzes & HW** (10%)

Course Schedule:
Tuesday 10:40–12:30   Room BZ–03   (Section 4)
Friday 8:40–10:30   Room BZ–03
Tuesday 8:40–10:30   Room BZ–02   (Section 5)
Thursday 10:40–12:30   Room BZ–02

Office Hours: Friday 10:40–11:30, 13:40–14:30

Textbook: Thomas and Finney, *Thomas' Calculus, Updated 10th. edition,* (Addison-Wesley, Boston, 2003)

75% Attendance is Obligatory

	Week	Subject	MT
#1	Sep 22–26	P.1–P.2: Lines; functions and graphs	
#2	Sep 29–Oct 3	P.3–P.4: Exponential functions; inverse functions and logarithms	
#3	Oct 6–10	P.5: Trigonometric functions	
#4	Oct 13–17	1.1–1.2: Rates of change and limits	#1
#5	Oct 20–24	1.3–1.4: Limits involving infinity. Continuity	
#6	Oct 27–Oct 31	1.5, 2.1: Tangent lines. Derivatives	
#7	Nov 3–7	2.2-2.4: Rates of change. Differentiation	
#8	Nov 10–14	2.5–2.6: Differentiation (continued)	
#9	Nov 17–21	2.7, 3.1: Related rates. Extreme values	
#10	Nov 24–28	*İyi bayramlar!*	
#11	Dec 1–5	3.2–3.3: The mean value theorem. Graphing	#2
#12	Dec 8–12	3.5–3.6: Optimization. Linearization	
#13	Dec 15–19	4.1–4.3: Indefinite integrals. Integration rules; substitution	
#14	Dec 22–26	4.4–4.5: Definite integrals. Mean value and fundamental theorem	
#15	Dec 29–Jan 2	4.6, 5.1: Substitution in definite integrals. Volumes	
#16	Jan 3–9	5.2–5.3: Volumes (continued). Arc length	