

MATH 116.05 – INTERMEDIATE CALCULUS III

Semester: Summer 2007

Instructor: Alex Degtyarev

Office: Room SA-130

Phone: x2135

Email: degt@fen.bilkent.edu.tr

Exams & Grading: • **Midterms** (25% each)

1st Midterm

June 16, 2007, Saturday, 10:00–12:00

2nd Midterm

June 30, 2007, Saturday, 10:00–12:00

• **Final Exam** (40%)

TBA

• **Quizzes** (10%)

Course Schedule: Monday 1:40–4:30

Room BZ01

Wednesday 1:40–4:30

Room BZ01

Friday 1:40–4:30

Room BZ01

Office Hours: Monday 10:40–11:30

Wednesday 10:40–11:30

Friday 10:40–11:30

Textbook: *Thomas' Calculus, 11-th (international) edition, Pearson 2005.*

75% Attendance is Obligatory

Day		Subject
#1	June 4	Limits and Continuity of Functions of Several Variables (14.1, 14.2)
#2	June 6	Partial Derivatives, Chain Rule (14.3, 14.4)
#3	June 8	Directional Derivatives, Gradient, Tangent Planes (14.5, 14.6)
#4	June 11	Extreme Values (14.7)
#5	June 13	Lagrange Multipliers (14.8)
#6	June 15	Taylor's Formula for Two Variables (14.10), Review of the first part of the course (midterm 1)
#7	June 18	Double Integrals (15.1, 15.2),
#8	June 20	Double Integrals in Polar Form (15.3)
#9	June 22	Triple Integrals in Rectangular Coordinates (15.4)
#10	June 25	Triple Integrals in Cylindrical and Spherical Coordinates (15.6)
#11	June 27	Substitution in Multiple Integrals (15.7)
#12	June 29	Review of the second part of the course (midterm 2)
#13	July 2	Line integrals, Vector Fields (16.1, 16.2)
#14	July 4	Path independence, Potential Functions (16.3)
#15	July 6	Green's Theorem (16.4)
#16	July 9	Surface Integrals (16.5, 16.6)
#17	July 11	Stokes' Theorem (16.7)
#18	July 14	The Divergence Theorem (16.8)