MATH 116.02 – INTERMEDIATE CALCULUS III

Semester: Summer 2007

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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	8:40-11:30	Room BZ04
Wednesday	8:40-11:30	Room BZ04
Friday	8:40-11:30	Room BZ04

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**)
#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	Vector valued function, arc length and unit tangent vector **(13.1, 13.3)**
#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 13	The Divergence Theorem (**16.8**)