

MATH 95 (Section 1)
Fall 2004
Dr. D. Zitarelli

HONORS CALCULUS

606 Wachman Hall
david.zitarelli@temple.edu
Phone: 215-204-7844
Fax: 215-204-6433

CLASS: M&W 9:40 – 11:30 in 306 Tuttleman Learning Center.

TEXT: There are two versions of the text; both are identical for Chapters 1-11, which are covered in Math 95-96. Students taking this sequence should buy James Stewart, *Single Variable Calculus: Early Transcendentals*, 5th edition, Thomson (Brooks/Cole) Publishing Company, 2003. However, students who plan to take Calculus III (Math 127) are recommended to buy James Stewart, *Calculus: Early Transcendentals*, 5th edition, Thomson (Brooks/Cole) Publishing Company, 2003.

CONTENT: Math 95 is a high-level, four-credit, first-semester calculus course that involves both theory and applications. Topics include functions, limits and continuity, differentiation of algebraic, trigonometric, inverse, exponential, and logarithmic functions, curve sketching, optimization, and L'Hospital's rule. There is a mix of computational and theoretical approaches throughout all the material.

PREREQUISITE: Authorization by an advisor in the Honors Program based on superlative scores on the SAT-quantitative exam and on Temple's mathematics placement test, as well as solid foundations in geometry, algebra, and trigonometry.

HOMEWORK: Each class generates an assignment. Homework assignments will be collected every Monday; they will be graded. Late submissions are unacceptable.

QUIZZES: Ten-minute quizzes will be given every Wednesday.

TESTS: There will be two two-hour tests and a cumulative, departmental two-hour final exam.

GRADING:

Tests	50%
Final Exam	30% (Tuesday, December 14, 2 p.m.–4 p.m.)
Homework	10%
Quizzes	10%

Grade cutoffs are 90% (for an A), 80% (B), 70% (C), and 60% (D). A plus sign is added for averages within a point of the higher grade and a minus sign for averages within a point of the lower grade. The grade of W can be assigned up to Monday, November 1; after that the grades of A to F will be given. The College of Science & Technology allows the grade of I only for a student who could not take the final exam due to medical reasons, has an official note to verify that fact, and has completed all other material.

GROUPS: You are encouraged to form study groups for doing homework as well as for preparing for tests and the final exam. However, students are responsible for their own submissions. Shared work is encouraged – mindless copying is unacceptable.

TECHNOLOGY: Calculators are encouraged in class, for homework, and on tests. Exercise sets based on *Excel*, *MATLAB*, or Temple's *Calculus on the Web* may be assigned. The use of all software will be explained and demonstrated.

OFFICE HOURS: Mondays 2:40-3:30 p.m., Wednesdays 3:40-4:30 p.m., Fridays 9:40-11:30 a.m.