

Calculus III (152-302)

Quarter: Spring 2013
Time: TTH 11:20 – 12:50
Campus: LPC
Room: SAC 294
Term: 0910
Course Number: 31390

Instructor: Ash, J.M.

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Office Hours: Tu 1:30-3, Th 9:40-11:10, also by appointment

Prerequisites

MAT 151 or placement by the Mathematics Diagnostic Test. Prerequisites are strictly enforced by the Math Department. A prerequisite can only be waived by the approval of the instructor and the department chair.

Textbooks and other materials

Thomas' Calculus 12th Edition, by G.B.Thomas,Jr., M.D.Weir, and J.Hass, Pearson, 2010. ISBN 0-321-63742-9 (or, if you intend to also take second year calculus, 0-321-58799-5). A scientific calculator such as any TI with model number between TI81 and TI 84 Plus is required.

Summary of Course

Transcendental Functions

7.5 Indeterminate Forms and L'Hôpital's Rule

Techniques of Integration

8.3 Trigonometric Substitutions
8.4 Integration of Rational Functions by Partial Fractions
8.7 Improper Integrals

Infinite Sequences and Series

10.1 Sequences
10.2 Infinite Series
10.3 The Integral Test
10.4 Comparison Tests
10.5 The Ratio and Root Tests
10.6 Alternating Series, Absolute and Conditional Convergence
10.7 Power Series
10.8 Taylor and MacLaurin Series
10.9 Convergence and Taylor Series
10.10 The Binomial Series and Applications of Taylor Polynomials

Homework and Grading Policy

Midterm and final exams, in class and closed book will count equally in determining a preliminary grade. Homework will be assigned each class day, discussed the next class day, collected the next class day and will increase or decrease the preliminary grade by at most one grade. Example 1: B+ and satisfactory homework = A-. Example 2: B+ and unsatisfactory homework = B. Make-up exams will not be given. The final exam will be from 11:45 -- 2 on Tuesday, June 11, 2013.

Methods

Classroom lectures and discussion.

DePaul University's Academic Integrity Policy

Students must abstain from any violations of academic integrity and set examples for each other by assuming full responsibility for their academic and personal development, including informing themselves about and following the university's academic policy. Violations of academic integrity include but are not limited to the following categories: cheating; plagiarism; fabrication; falsification or sabotage of research data; destruction or misuse of the university's academic resources; alteration or falsification of academic records; and academic misconduct. Conduct that is punishable under the Academic Integrity Policy could result in additional disciplinary actions by other university officials and possible civil or criminal prosecution. To review the complete Academic Integrity Policy of the University, please go to <http://tinyurl.com/cv2c8xo>.

Students with Disabilities

Students who feel they may need an accommodation based on the impact of a disability should contact me privately to discuss their specific needs. All discussions will remain confidential. To ensure that you receive the most appropriate accommodation based on your needs, contact me as early as possible in the quarter (preferably within the first two weeks of class), and make sure you have contacted the Center for Student Disabilities at 773-325-1677 in Student Center 370.