

Math 1320: Survey of Calculus, Spring 2018

Course Information

Course Title: Survey of Calculus
Section: M01
Meeting times: MWF 10:00-10:50 in PRH 8
Credit hours: 3
Pre-requisites: A minimum of C⁻ in Math 1200

Instructor Information

Name: Anitha Srinivasan
Contact: anitha.srinivasan@slu.edu
Office Hours: MTWF 12:00-12:50
Office: Math Office, PAH, 1st floor.
Phone Number: 915545858 Ext: 299

Course objectives and description

The main objective of this first course in Calculus is to introduce the student to the concepts of differential and integral Calculus with applications to Business and Economics.

Course Outline

- Review of graphs and functions
- Modeling in Business
- Derivatives
 - The derivative as a limit
 - Rules of differentiation
 - Marginal analysis in Business and Economics
 - Application problems with emphasis on optimization problems in Business and Economics
- Multivariable differential Calculus with applications to Business and Economics
- Integration
 - Anti-Derivatives

- Definite Integrals and the Fundamental Theorem of Calculus
- Applications

Text Book

Calculus for Business, Economics, Life Sciences and Social Sciences, Barnett, Ziegler, Byleen, 13th edition, Prentice Hall, Upper Saddle River, NJ, 2008

Attendance

Attendance is compulsory. All absences must be justified.

Make up exams

A makeup exam will be given only if an exam is missed due to an excused absence (see paragraph below).

Excused absences

Legitimate conflicts and excuses require written documentation and are limited to serious health related problems in the immediate family that affect the student directly, a student's illness that requires immediate doctor's care (with the corresponding doctor's note), a University sponsored event (except club sports) and regularly scheduled religious obligations. Excuses that will NOT be considered include personal travel arrangements, non-University sponsored events, a conflicting appointment, or an illness that does not prevent the student from coming to the exam.

Grading system

The final grade will be obtained as follows:

- 10% Assignments
- 10% Quizzes
- 20% First midterm exam
- 20% Second midterm exam
- 40% Final exam (comprehensive)

Course calendar

Please check the [Calendar](#) regularly where all important dates are given including midterm exam dates, drop dates etc. In particular note the following dates.

- Last day to drop/add a class without a W grade: January 21
- Last day to drop a class and receive a W grade: March 9
- Registration for Fall 2018 semester begins on April 4

Midterm 1: Friday, February 9 at 2:00

Midterm 2: Friday, April 13 at 2:00

Final Exam: May 7, 09:30 to 11:30

Student learning outcomes:

- Students will be able to solve optimization problems such as maximization of profit and minimization of cost.
- Students will be able to apply marginal analysis to simple application problems in Business and Economics.
- Students will be able to calculate derivatives using basic rules and techniques.
- Students will be able to evaluate partial derivatives.
- Students will be able to solve simple application problems in Business and Economics using partial derivatives.
- Students will be able to compute anti-derivatives.
- Students will be able to evaluate definite integrals.
- Students will be able to solve application problems using the Fundamental Theorem of Calculus.

Academic honesty

The University's Academic Integrity Statement:

Academic integrity is honest, truthful and responsible conduct in all academic endeavors. The mission of Saint Louis University is "the pursuit of truth for the greater glory of God and for the service of humanity." Accordingly, all acts of falsehood, deceit and compromise the corporate endeavors of teaching, research, health care and community service via which SLU embodies its mission. The University strives to prepare students for lives of personal and professional integrity, and therefore regards all breaches of academic integrity as matters of serious concern.

The governing University-level Academic Integrity Policy can be accessed on the Provost's Office website at: [Academic Integrity Policy](#). Additionally, SLU-Madrid has posted its academic integrity policy online [available here](#).

As a member of the University community, you are expected to know and abide by these policies, which detail definitions of violations, processes for reporting violations, sanctions and appeals. The professor will review these policies during the first weeks of the term: please direct questions about any facet of academic integrity to your professor, the chair of the department of your academic program or the Academic Dean of the Madrid Campus.

Academic Accommodations and Learning Resources

In recognition that people learn in a variety of ways and that learning is influenced by multiple factors (e.g., prior experience, study skills, learning disability), resources to support student success are available on campus. Students who think they might benefit from these resources can find out more about:

Course-level support (e.g., faculty member, departmental resources, etc.) by asking your course instructor. University-level support (e.g., tutoring/writing services, Disability Services) by visiting the Academic Dean's Office (San Ignacio Hall)

Students with a documented disability who wish to request academic accommodations must contact Disability Services to discuss accommodation requests and eligibility requirements. Once successfully registered, the student also must notify the course instructor that they wish to access accommodations in the course. Please contact Disability Services at disabilityservices-madrid@slu.edu or +915 54 58 58, ext. 230 for an appointment. Confidentiality will be observed in all inquiries. Once approved, information about the students eligibility for academic accommodations will be shared with course instructors via email from Disability Services. For more information about academic accommodations, see Student Resources on the SLU-Madrid webpage.

Note: Students who do not have a documented disability but who think they may have one are encouraged to contact to Disability Services.

Title IX Statement

Saint Louis University and its faculty are committed to supporting our students and seeking an environment that is free of bias, discrimination, and harassment. If you have encountered any form of sexual misconduct (e.g. sexual assault, sexual harassment, stalking, domestic or dating violence), we encourage you to report this to the University. If you speak with

a faculty member about an incident of misconduct, that faculty member must notify SLU's Title IX deputy coordinator, Marta Maruri, whose office is located on the ground floor of Padre Rubio Hall, Avenida del Valle, 28 (mmaruri@slu.edu; 915-54-5858, ext. 213) and share the basic fact of your experience with her. The Title IX deputy coordinator will then be available to assist you in understanding all of your options and in connecting you with all possible resources on and off campus.

If you wish to speak with a confidential source, you may contact the counselors at the SLU-Madrid's Counseling Services on the third floor of San Ignacio Hall (counselingcenter-madrid@slu.edu; 915-54-5858, ext. 230) or Sinews Multipletherapy Institute, the off-campus provider of counseling services for SLU-Madrid (www.sinews.es; 917-00-1979). To view SLU-Madrid's sexual misconduct policy and for resources, [click here](#).

Information regarding collection of student work for assessment

Saint Louis University - Madrid Campus is committed to excellent and innovative educational practices. In order to maintain quality academic offerings and to conform to relevant accreditation requirements, we regularly assess our teaching, services, and programs for evidence of student learning outcomes achievement. For this purpose we keep on file "anonymized" representative examples of student work from all courses and programs such as: assignments, papers, exams, portfolios, and results from student surveys, focus groups, and reflective exercises. Thus, copies of your work for this course, (e.g. any exams or assignments) may be kept on file for institutional research, assessment and accreditation purposes. If you prefer that Saint Louis University-Madrid Campus does not keep your work on file, you will need to communicate your decision in writing to your professor.