

MATH-1220-M01 Finite Mathematics, Spring 2018

Course Information.

Course Title:	Finite Mathematics
Course Number:	MATH-1220 M01
Meeting times:	MW 14:30-15:45 pm in PRH - 10
Semester:	Fall
Credit hours:	3
Prerequisites:	Grade C- in MATH-1200 or equivalent level of mathematics

Instructor Information

Name:	Carlos Quesada González
Contact:	carlos.quesadagonzalez@slu.edu
Office Hours:	MW 15:45-16:35, and by appointment.
Office:	Math Office, Padre Arrupe Hall, 1 st floor. Science and Engineering Office

Course Objectives

Finite Mathematics is an introductory level course covering mathematical ideas needed by students of business management, social science, or biology. The topics include linear equations and straight lines, linear systems and linear programming, matrices, sets and counting, probability and statistics, mathematics of finance, and logic.

Course Outline

(Subject to truncation)

1. Chapter 1. Linear Equations.
2. Chapter 2. Systems of Linear Equations; Matrices.
3. Chapter 3. Linear Programming with Two Variables.
4. Chapter 5. Finance.
5. Chapter 6. Sets; Counting Techniques.
6. Chapter 7. Probability.
7. Chapter 8. Additional Probability Topics.
8. Chapter 9. Statistics.
9. Chapter 11. Logic.

Student Learning Outcomes

1. Solve systems of linear equations and inequalities with graphs and matrices.
2. Solve simple linear programming problems with two variables.
3. Determine the probability of events.
4. Describe and analyze data graphically and numerically.
5. Solve financial problems.
6. Students will understand, write, and explain symbolic logic.

Text book

Finite Mathematics: An applied approach, Sullivan, M. Wiley, 10th edition, 2007.

A calculator is recommended. You should bring your calculator to class every day.

Required work

Three in class exams, and one comprehensive final will be given. Online homework will be assigned for every topic covered. The homework will not be graded but the questions asked in the exams will be similar to those from the assignments.

Evaluation

- In-class exams: 1:30-hour exam consisting of some problems related to the material covered in class.
- Final exam: two to three-hour exam covering the **entire semester's material**, and will be similar to the midterm exams.

Remark: No complaints about the grade of an exam will be accepted two weeks after the results have been announced.

Grading system

The final grade will be obtained as follows:

- 60% In-class exams (20% each)
- 40% Final exam (comprehensive)

Late work

Make up exams are not given. If an exam is missed due to an excused absence (see paragraph below), a makeup exam will be given *the same day of the final exam*. Exams that are missed illegitimately result in a score of 0 for that exam. Missing more than one exam results in a final grade F, thus failing the course.

Excused Absences

Legitimate conflicts and excuses require written documentation and are limited to death or near-death instances in the immediate family, a student's illness that requires immediate doctor's care (with the corresponding doctor's note), a University sponsored event 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 you from coming to the exam.

If an absence is unavoidable, it is the student's responsibility to find out what was covered in class and to secure notes from another student.

Attendance and punctuality

Attendance is mandatory. I strongly urge you to attend all classes. You will be responsible for any announcements, information, problems or course changes that are made in all lectures. Students are expected to arrive on time to the lectures. Repeated lateness will not be tolerated. So, please, come to class on time and do not leave early. **Anything else is rude and disruptive.**

Participation

Active participation during the lectures will have a positive impact on the final grade.

Course calendar:

Schedule: <https://www.slu.edu/madrid/academics/registrar/academic-calendar/spring-2018>
Exams Schedule <https://www.slu.edu/madrid/academics/registrar/final-exam-schedule/2017-2018>

The main information related to this course is:

- January 21st: Last day to drop without a W.
- February 12th: First In-Class exam. Room PRH-10
- March 9th: Last day to drop with a W.
- March 12th: Second In-Class exam. Room PRH-10
- April 4th: Registration for Fall begins.
- April 16th: Third In-Class exam. Room PRH-10
- May 4th: Final Exam at 15:30. Room PRH – 10

University's Academic Integrity:

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 demean 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: http://www.slu.edu/Documents/provost/academic_affairs/University-wide%20Academic%20Integrity%20Policy%20FINAL%20%206-26-15.pdf. Additionally, SLU-Madrid has posted its academic integrity policy online: <http://www.slu.edu/madrid/academics>. 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.

Accommodation Statement

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) or by going to <http://www.slu.edu/madrid/learning-resources>.

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 student's 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 Disability Services.

Student Outcome Assessment

In order to maintain quality academic offerings and to conform to accreditation requirements, SLUMadrid regularly assesses its teaching, services and programs for evidence of student learning. For this purpose, SLU-Madrid keeps representative examples of student work from all courses and programs on file, including assignments, papers, exams, portfolios and results from student surveys, focus groups and reflective exercises. Copies of your work for this course may be kept on file for institutional research, assessment and accreditation purposes. If you prefer SLU-Madrid not to retain your work for this purpose, you must communicate this decision in writing to your professor.

Title IX

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 Multiple therapy 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, please visit the following web address:<http://www.slu.edu/Documents/Madrid/campus-life/SLUMadridSexualMisconductPolicy.pdf>.