



Course Schedule

The course has 24 class sessions in total. All sessions are 2 hours and 15 minutes in length. Note: the course outline and required readings are subject to change.

- Class 1: Linear Equations and Straight Lines
- Class 2: The Intersection Point of a Pair of Lines
- Class 3: The Method of Least Squares
- Class 4: Systems of Linear Equations with Unique Solutions
- Class 5: The Inverse of a Matrix
- Class 6: The Gauss-Jordan Method for Calculating Inverses
- Class 7: A Linear Programming Application
- Class 8: The Fundamental Theorem of Linear Programming
- Class 9: Sets
- Class 10: A Fundamental Principle of Counting
- Class 11: Permutations and Combinations
- Class 12: Further Counting Techniques
- Class 13: The Binomial Theorem
- Class 14: Experiments, Outcomes, Sample Spaces, and Events
- Class 15: Calculating Probabilities of Events
- Class 16: Conditional Probability and Independence
- Class 17: Bayes' Theorem, Natural Frequencies
- Class 18: Frequency and Probability Distributions
- Class 19: Binomial Trials
- Class 20: Normal Approximation to the Binomial Distribution
- Class 21: Markov Chain Transition Matrix
- Class 22: Regular Stochastic Matrices
- Class 23: Properties of Markov Chain
- Class 24: Final Exam Review

Attending Policy

Regular and prompt attendance is required. Under ordinary circumstances, you may miss two times without penalty. Each absence over this number will lower your course grade by a third of a letter and missing more than five classes may lead to a failing grade in the course. Arriving late and/or leaving before the end of the class period are equivalent to absences.

Policy on "Late Withdrawals"

In accordance with university policy, appeals for late withdrawal will be approved ONLY in case of medical emergency and similar crises.

Academic Honesty



Nanchang University expects all students to do their own work. Instructors will fail assignments that show evidence of plagiarism or other forms of cheating, and will also report the student's name to the University administration. A student reported to the University for cheating is placed on disciplinary probation; a student reported twice is suspended or expelled.

General Expectations:

Students are expected to:

- Attend all classes and be responsible for all materials covered in class and otherwise assigned;
- Complete the day's required reading and assignments before class;
- Review the previous day's notes before class and make notes about questions you have about the previous class or the day's reading;
- Participate in class discussions and complete required written work on time;
- Refrain from texting, phoning or engaging in computer activities unrelated to class during the class period;
- While class participation is welcome, even required, you are expected to refrain from private conversations during the class period.

Special Needs or Assistance

Please contact the Administrative Office immediately if you have a learning disability, a medical issue, or any other type of problem that prevents professors from seeing you have learned the course material. Our goal is to help you learn, not to penalize you for issues which mask your learning.