

Folder Name	Course Name	Course Description	Link
Linear Methods I	Math 211	An introduction to systems of linear equations, vectors in Euclidean space, and matrix algebra. Additional topics include linear transformations, determinants, complex numbers, eigenvalues, and applications.	Google Drive
Linear Methods II	Math 311	An introductory course in the theory of abstract vector spaces: linear independence, spanning sets, basis and dimension; linear transformations and the rank-nullity theorem; the Gram-Schmidt algorithm and orthogonal diagonalization; and other applications.	Google Drive
University Calculus I	Math 265	An introduction to single variable calculus intended for students with credit in high school calculus. Limits, derivatives, and integrals of algebraic, exponential, logarithmic, and trigonometric functions play a central role. Additional topics include applications of differentiation, the Fundamental Theorem of Calculus, improper integrals, and applications of integration. Differential	Google Drive

		calculus in several variables will also be introduced.	
Introductory Calculus	Math 249	An introduction to single variable calculus. Limits, derivatives, and integrals of algebraic, exponential, logarithmic, and trigonometric functions play a central role. Additional topics include applications of differentiation, the Fundamental Theorem of Calculus, improper integrals, and applications of integration.	Google Drive
University Calculus II	Math 267	A concluding treatment of single variable calculus and an introduction to calculus in several variables. Single variable calculus: techniques of integration, sequences, series, convergence tests, and Taylor series. Calculus of several variables: partial differentiation, multiple integration, parametric equations, and applications	Google Drive

Suggested Course Sequence for Math Studies:

- **MATH 211 – Linear Methods I**
- **MATH 311 – Linear Methods II**
- **MATH 249 – Introductory Calculus**
(Equivalent to Grade 12 Calculus and Differential in Iran)

- **MATH 265 – Calculus I**
(Equivalent to "Riazi 1" in Iran)
- **MATH 267 – Calculus II**
(Equivalent to "Riazi 2" in Iran)

ترتیب پیشنهادی برای مطالعه دروس ریاضی:

- **MATH 211 – روش‌های خطی I**
- **MATH 311 – روش‌های خطی II**
- **MATH 249 – حساب دیفرانسیل مقدماتی**
(معادل حساب و دیفرانسیل پایه دوازدهم در ایران)
- **MATH 265 – حساب دیفرانسیل و انتگرال I**
(معادل "ریاضی ۱" در ایران)
- **MATH 267 – حساب دیفرانسیل و انتگرال II**
(معادل "ریاضی ۲" در ایران)