2024-25 ACADEMIC COURSES

MTH 197 : LINEAR ALGEBRA

In this course, students will be introduced to linear algebra. Topics include proof techniques, systems of linear equations, matrix algebra, vector spaces including abstract spaces like Pn, linear independence and span, bases and dimension, and linear transformations with their matrices. Additionally, students will explore rank theorems, isomorphism, eigenvalues and eigenspaces, diagonalization, inner product spaces, orthogonal matrices, Gram-Schmidt orthogonalization, along with various applications such as least squares approximation and QR factorization. Level I Prerequisite: Academic Reading and Writing Levels of 6; MTH 192 minimum grade "C"

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Description	Hours
Credits	4
Lecture Hours	60
Clinical Hours	0
Lab Hours	0
Other Hours	0
Total Hours	60

Accurate as of 05/16/2025 Information is subject to change without notice.