DAVIS UNIVERSITY

COURSE SYLLABUS
MTH236: MATHEMATICS FOR ECONOMICS II
SUMMER QUARTER 2025

QUARTER: SUMMER QUARTER 2025

COURSE SYLLABUS FOR: MTH236 MATHEMATICS FOR ECONOMICS II

CREDIT HOURS: 5 CREDITS

INSTRUCTOR:

INSTRUCTOR EMAIL:

INSTRUCTOR OFFICE HOURS:

COURSE DESCRIPTION: Topics include optimization, multivariable functions, linear systems, matrix algebra, Riemann integral, integration techniques, differential equations, etc.

PREREQUISITES: Mathematics for Economics I

TEXT: Knut Sydsaeter, Peter Hammond, Arne Strom, Andrés Carvajal, *Essential Mathematics for Economic Analysis*, 6th edition, Pearson, ISBN-13: 9781292359281

LATE WORK POLICY: All students are expected to submit homework assignments electronically on the date specified on the syllabus No late homework will be accepted and the student will receive a "0" (zero) for the homework assignment. Should the student refuse to complete the assigned work for the class, it could result in the student failing the class. All work assigned is expected to be completed on the date assigned. The instructor reserves the right to alter the schedule as necessary.   Please be sure to check your email/Moodle for any changes to the schedule.

PLAGIARISM AND COPYRIGHT INFRINGEMENT POLICY: Work that is found to be plagiarized receives a grade of zero and often causes a student to fail a class. Documentation of plagiarism is added to the student's academic file as a violation of accepted student conduct and is subject to disciplinary action. Plagiarism is the use of another person's exact words, or their ideas written in the student's words without giving the original author credit.

Plagiarism can result from any of the following:

- Quote material directly without using quotation marks.
- Paraphrase the original so that many of the phrases are the same as the original. A good rule is no more than 3 or 4 words in a row should be the same as the original.
- Copy the original sentence pattern, substitution synonyms for key words.
- Neglect to indicate the source of the original material.

ASSESSMENTS:

Content

Homework	30%
Quizzes	20%
Midterm Exam	25%
Final Exam	25%
Total	100%

COURSE GRADE: **A = 93%-100%**

                         B = 85%-92%

                         C = 77%-84%

                         D = 70%-76%

                         F = below 70%

TENTATIVE CLASS SCHEDULE:

(Subject to change)

Week	Content Covered	Assignments & Assessment Due
Week 1:	● Review ● Optimization ● Matrix Algebra	Homework 1- Friday
Week 2:	● Determinants, Inverses, and Quadratic Forms ● Multivariable Functions	Homework 2- Friday
Week 3:	● Partial Derivatives in Use ● Multiple Integrals	Homework 3- Thursday Midterm Exam- Friday
Week 4:	● Equality Constraints ● Linear Programming	Homework 4- Friday
Week 5:	● Integration ● Final Exam	Homework 5- Thursday Final Exam- Friday