



Tárgytematika

EÖTVÖS LORÁND TUDOMÁNYEGYETEM

TÁTK Közgazdaságtudományi Tanszék
(TÁTK-KOZGAZ-TANSZ)

2019/20/1

Tárgynév:	Calculus
Tárgykód:	ECBA002
Tárgyfelelős neve:	Horváth Áron Botond
Tárgy követelménye:	gyakorlati jegy (5)
Tárgy heti óraszám:	0/4/0

Oktatás célja:

The aim of this course is to equip students with the basic BA-level mathematical knowledge needed to

1. Understand and master economics courses and topics in microeconomics, macroeconomics and econometrics
2. Develop a strong quantitative skill set relevant for economics research and job market tasks.

Upon completion of the course, students will be in the possession of a strong mathematical background supporting economic analysis.

Tantárgy tartalma:

- Week 1.: Functions of One Variable
 - Week 2.: Limits and Continuity
 - Week 3.: Differentiation of Functions of a Single Variable
 - Week 4.: Further Topics in Differentiation
 - Week 5.: Properties of Continuous and Differentiable Functions I-II
 - Week 6.: Properties of Continuous and Differentiable Functions III; Single Variable Optimization I.
 - Week 7.: Single Variable Optimization II.; Midterm
 - Week 8.: Basics of Linear Algebra
 - Week 9.: Determinants, Transpose, and Inverse of a Matrix
 - Week 10.: Functions of Several Variables; Relations
 - Week 11.: Topics in Comparative Statistics
 - Week 12.: Multivariate Optimization
 - Week 13.: Constrained Optimization; Final Exam
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Számonkérési és értékelési rendszere:

Class participation is mandatory, repeated failure of attendance can lead to failure on the course. Students are required to pass a written midterm and final exam (exact dates will be set in one of the first classes). A minimum of 40% is required to pass each



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Számonkérési és értékelési rendszere:

exam, but a minimum of 50% is required on the overall score to pass the course.

The grading commences as follows:

0 - 49% - Fail (1)

50 - 59% - Sufficient (2)

60 - 74% - Average (3)

75 - 84% - Merit (4)

85 - 100% - Excellent (5)

Kötelező irodalom:

Sydsaeter, Knut – Hammond, Peter J: Mathematics for Economic Analysis. Pearson Publishing. (Most modern edition will be ok).
