

### 1. Course Identity

<b>Course name</b>	Intermediate Mathematics for Economics and Business		
<b>Faculty</b>	Business and Economics	<b>Study Program</b>	Economics
<b>Code</b>	SIE226	<b>Credit</b>	3
<b>Group</b>	Study Program	<b>Course Status</b>	Compulsory
<b>Semester</b>	2	<b>Availability</b>	Limited
<b>Learning Method</b>	in-class	<b>Media</b>	Blended
<b>Course Group</b>	Core Subject	<b>Prerequisite</b>	Basic Mathematics for Economics and Business

### 2. Course Description

This course aims to improve advanced mathematical skills in solving more complex economic problems. The course materials include calculus: differential and integral, the application of calculus in economics and input output analysis. Basic mastery that should be owned: basics of calculus.

### 3. Learning Outcome

GLO Code	Formulation of Graduate Learning Outcome (GLO)	CLO Code	Formulation of Course Learning Outcome (CLO)
E	Able to master quantitative reasoning to analyze business phenomena, finance, and economic development.	E2	Mastering economic theoretical concepts in analyzing the implication, benefits, and limitations of micro and macroeconomic policies using numerical and graphical techniques.
G	Able to apply logical, critical, systematic and innovative thinking in solving problems in science and technology.	G2	Able to master quantitative reasoning on the concept of optimization to perform economic analysis with calculus.

### 4. Study Materials and Main References

<b>Study Material</b>	Study materials: Quantitative Method and Calculus
<b>Main Reference</b>	[1] Ian Jacques, 2015, Mathematics for Economics and Business, Pearson Educational Limited, Jul 22. [2] Mike Rosser, 2003, Basic Mathematics for Economists, 2th Edition, Routledge, London and New York. [3] Dumairy, 2006, Matematika Terapan untuk Bisnis dan Ekonomi, Edisi 4, BPFE-UGM, Yogyakarta. [4] Budnick, 1993, Applied Mathematical for Business, Economic and Social Sciences, Mc Graw-Hill, Singapore.

Date :	Date:	Date :
Approved by the Dean	Checked by the Head of Study Program	Prepared by:



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