

ECP77101 — Introductory Mathematics

Module Information	
Module Code	<i>ECP77101</i>
Module Title	<i>Introductory Mathematics</i>
Department	<i>Economics</i>
Module Personnel	<i>Prof Gustav Fredriksson & prof Nicola Fontana</i>
Academic Year	<i>2026–27</i>
Credit Weighting	<i>0 credits</i>
Semester	<i>1</i>
Contact Hours	<i>30 hours of lectures</i>

Module Content	
Module Description	<i>This module is an overview of the most important mathematics techniques used in economic analysis. The module consists of two parts. The first week will be devoted to the tools used in microeconomics, ranging from set theory to optimization with nonlinear constraints. In the second week, we will go through techniques typically used in macroeconomics such as integral calculus and dynamic analysis, both in discrete and continuous time.</i>
Learning Outcomes	<i>Upon the completion of the modules, students will be familiar with the most important mathematics tool applied in micro and macroeconomics.</i>

Assessment	
Assessment Components	The module does not award any credit therefore there will be no formal assessment.
Assessment Details	<i>N/A</i>



Additional Information	
Prerequisites	<i>None</i>
Co-requisites	<i>None</i>
Any other information	Recommended reading list: • <i>Simon and Blume (1994) Mathematics for Economists. Norton</i> • <i>Chiang and Wainwright (2005) Fundamental Methods of Mathematical Economics. McGraw-Hill.</i>