



NUI Galway
OÉ Gaillimh

College of Science and Engineering
2022/2023

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BSc FINANCIAL MATHEMATICS & ECONOMICS



(V.1)

www.nuigalway.ie/science-engineering

Overview

Year 1	Year 2	Year 3	Year 4
[60 credits]	[60 credits]	[60 credits]	[60 credits]
There are 60 credits of Core modules.	There are 60 credits of Core modules.	There are 60 credits of Core modules.	<p>There are 40 credits of Core modules.</p> <p>Choose one project module to a value of 10 credits: Economics Project Final Year Project</p> <p>Choose two elective module to a value of 10 credits:</p> <p><u>Semester 1:</u> EC3105 Econometrics MG3111 Entrepreneurial Finance EC423 Ireland in the Global Economy</p> <p><u>Semester 2:</u> EC3106 Behavioural Finance EC3100 Economics and Philosophy EC429 Marine Economics</p>
<p>Module Descriptors for Years 1 to 4 are available at: http://www.nuigalway.ie/science-engineering/undergraduateprogrammes/financial-mathematics-and-economics.html#course_outline</p>			

BSc Financial Mathematics and Economics

Year 1	Year 2	Year 3	Year 4
[Core: 60 credits]	[Core: 60 credits]	[Core: 60 credits]	[Core 40 credits; Options: 20 credits]
<p><u>Full Year – Semester 1 and Semester 2</u></p> <p>MA180 Mathematics (Honours) [15]</p> <p>MA1993 Mathematics of Finance [5]</p> <p>-----</p> <p><u>Semester 1</u></p> <p>CS103 Computer Science [5]</p> <p>AY104 Introduction to Financial Accounting [5]</p> <p>EC135 Principles of Microeconomics [5]</p> <p>ST1111 Probability Models [5]</p> <p>EC1108 Skills for Economics 1 [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>MP191 Mathematical Methods I [5]</p> <p>EC136 Principles of Macroeconomics [5]</p> <p>ST1112 Statistical Methods [5]</p>	<p><u>Semester 1</u></p> <p>MA2286 Differential Forms [5]</p> <p>MA284 Discrete Mathematics [5]</p> <p>EC269 Intermediate Microeconomics [5]</p> <p>MP231 Mathematical Methods I [5]</p> <p>CS2101 Programming for Science and Finance [5]</p> <p>ST2003 Random Variables [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>MA283 Linear Algebra [5]</p> <p>MA2287 Complex Analysis [5]</p> <p>EC268 Intermediate Macroeconomics [5]</p> <p>EC247 Introduction to Financial Economics [5]</p> <p>MP232 Mathematical Methods II [5]</p> <p>ST2004 Statistical Inference [5]</p>	<p><u>Semester 1</u></p> <p>MA3991 Actuarial mathematics: Cashflow models [5]^</p> <p>ST313 Applied Regression Models [5]</p> <p>MA3343 Groups [5]</p> <p>MA341 Metric Spaces [5]</p> <p>EC369 Money And Banking [5]</p> <p>EC3101 Microeconomics and Public Policy [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>AY314 Business Finance II [5]</p> <p>EC362 Economics Of Financial Markets [5]</p> <p>MP307 Modelling II [5]</p> <p>EC3102 Macroeconomics and Public Policy [5]</p> <p>MP491 Non Linear Systems [5]</p> <p>MA342 Topology [5]</p>	<p><u>Full Year – Semester 1 and Semester 2</u></p> <p>EC471 Economics Project [10]*</p> <p>MM4000 Final Year Project [10]*</p> <p>-----</p> <p><u>Semester 1</u></p> <p>MA3991 Actuarial mathematics: Cashflow models [5]^</p> <p>EC3105 Econometrics [5]*</p> <p>MG3111 Entrepreneurial Finance [5]*</p> <p>EC423 Ireland in the Global Economy [5]*</p> <p>MA490 Measure Theory [5]</p> <p>MA385 Numerical Analysis I [5]</p> <p>ST413 Statistical Modelling [5]</p> <p>-----</p> <p><u>Semester 2</u></p> <p>MA495 Actuarial Mathematics: Life Contingencies II [5]</p> <p>EC3106 Behavioural Finance [5]*</p> <p>EC4100 Derivatives and Risk Management [5]</p> <p>MA418 Differential Equations With Financial Derivatives [5]</p> <p>EC3100 Economics and Philosophy [5]*</p> <p>CS4423 Networks [5]</p> <p>EC429 Marine Economics [5]*</p>
		<p>^ This module runs on a two-year cycle. An alternative module is offered next academic year.</p>	<p>* Select one 10-credit project module and two 5-credit elective module</p> <p>^ This module runs on a two-year cycle. An alternative module is offered next academic year.</p>
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