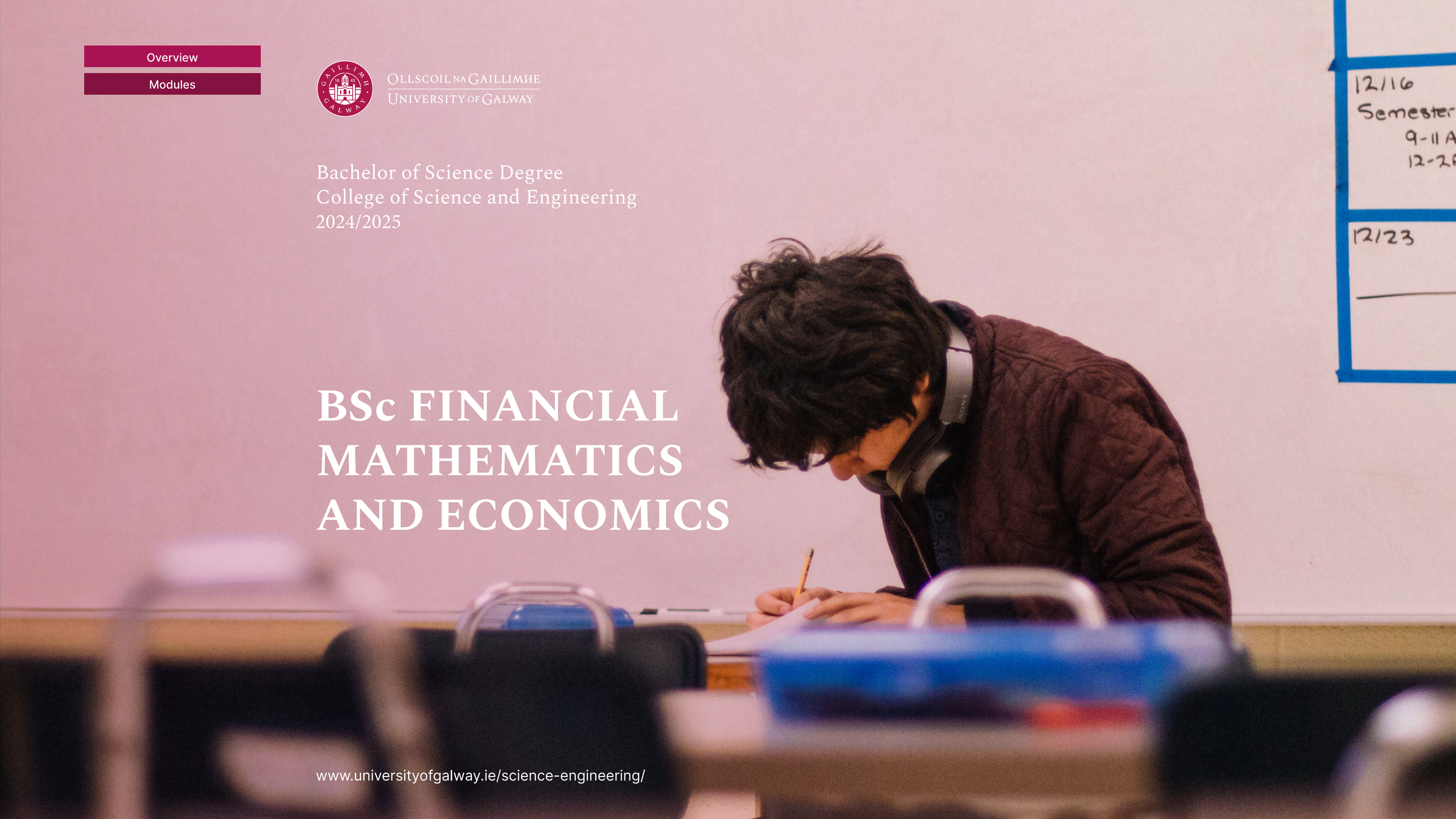
Overview

Modules

Ollscoil na Gaillimhe
University of Galway

Bachelor of Science Degree
College of Science and Engineering
2024/2025

BSc FINANCIAL MATHEMATICS AND ECONOMICS



www.universityofgalway.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 if students are not assigned MA4104.	There are 40 credits of Core modules. Choose one project module to a value of 10 credits: Economics Project Final Year Project Choose two elective module to a value of 10 credits: **One of:** *Semester 1:* EC3105 Econometrics MG3111 Entreprenurial Finance EC423 Ireland in the Global Economy **One of:** *Semester 2:* EC3106 Behavioural Finance EC3100 Economics and Philosophy EC429 Marine Economics

Module Descriptors for Years 1 to 4 are available at: https://www.universityofgalway.ie/science-engineering/undergraduateprogrammes/bachelorofsciencefinancialmathematicsandeconomics/#course_outline

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]**
Full Year – Semester 1 and Semester 2 MA180 Mathematics (Honours) [15] *Semester 1* CS103 Computer Science [5] AY104 Introduction to Financial Accounting [5] EC135 Principles of Microeconomics [5] ST1111 Probability Models [5] EC1108 Skills for Economics 1 [5] *Semester 2* MP191 Mathematical Methods I [5] MA1993 Mathematics of Finance [5] EC136 Principles of Macroeconomics [5] ST1112 Statistical Methods [5]	*Semester 1* MA2286 Differential Forms [5] MA284 Discrete Mathematics [5] EC269 Intermediate Microeconomics [5] MP231 Mathematical Methods I [5] CS2101 Programming for Science and Finance [5] ST2003 Random Variables [5] *Semester 2* MA283 Linear Algebra [5] MA2287 Complex Analysis [5] EC268 Intermediate Macroeconomics [5] EC247 Introduction to Financial Economics [5] MP232 Mathematical Methods II [5] ST2004 Statistical Inference [5]	*Semester 1* MA3991 Actuarial mathematics: Cashflow models [5]^ ST313 Applied Regression Models [5] MA3343 Groups [5] MA341 Metric Spaces [5] EC369 Money And Banking [5] EC3101 Microeconomics and Public Policy [5] *Semester 2* AY314 Business Finance II [5] EC362 Economics Of Financial Markets [5] MP307 Modelling II [5] EC3102 Macroeconomics and Public Policy [5] MP491 Non Linear Systems [5] MA342 Topology [5] MA4104 Financial Mathematics and Economics Professional Experience [20]*	*Full Year – Semester 1 and Semester 2* EC471 Economics Project [10]* MM4000 Final Year Project [10]* *Semester 1* MA3991 Actuarial mathematics: Cashflow models [5]^ EC3105 Econometrics [5]* MG3111 Entrepreneurial Finance [5]* EC423 Ireland in the Global Economy [5]* MA490 Measure Theory [5] MA385 Numerical Analysis I [5] ST413 Statistical Modelling [5] *Semester 2* MA495 Actuarial Mathematics: Life Contingencies II [5] EC3106 Behavioural Finance [5]* EC4100 Derivatives and Risk Management [5] MA418 Differential Equations With Financial Derivatives [5] EC3100 Economics and Philosophy [5]* CS4423 Networks [5] EC429 Marine Economics [5]*
		* MA4104 is assigned to students. Students assigned to this module will also be required to take modules MP307 and EC362 ^ This module runs on a two-year cycle. An alternative module is offered next academic year.	* Select one 10-credit project module and one 5-credit elective module in each semester ^ This module runs on a two-year cycle. An alternative module is offered next academic year.

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