



NUI Galway  
OÉ Gaillimh

College of Science

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Next page

# BSc FINANCIAL MATHEMATICS & ECONOMICS



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## Overview

| Year 1   | Year 2                                | Year 3                                | Year 4   |
|--|---------------------------------------|---------------------------------------|--|
| <b>[60 credits]</b>  | <b>[60 credits]</b>                   | <b>[60 credits]</b>                   | <b>[60 credits]</b>  |
| There are 60 credits of Core modules.  | There are 60 credits of Core modules. | There are 60 credits of Core modules. | There are 50 credits of Core modules.<br><br>Choose one project module to a value of 10 credits:<br>Economics Project<br>Mathematical Physics Project<br>Mathematics Project |
| <p>Module Descriptors for Years 1 to 4 are available at: <a href="http://www.nuigalway.ie/science/undergraduate-courses/financial-mathematics-and-economics.html#course_outline">http://www.nuigalway.ie/science/undergraduate-courses/financial-mathematics-and-economics.html#course_outline</a></p> |                                       |                                       |  |

## BSc Financial Mathematics and Economics

| Year 1   | Year 2   | Year 3  | Year 4  |
|--|--|---|---|
| [Core: 60 credits]   | [Core: 60 credits]   | [Core: 60 credits]  | [Core: 50 credits; Options: 10 credits]   |
| <p><i>Full Year – Semester 1 and Semester 2</i></p> <p>MA180 <b>Mathematics (Honours)</b> [15]</p> <p>MA199 <b>Statistics &amp; Probability &amp; Maths Of Finance</b> [15]</p> <p>-----</p> <p><i>Semester 1</i></p> <p>CS103 <b>Computer Science</b> [5]</p> <p>AY104 <b>Introduction to Financial Accounting</b> [5]</p> <p>EC135 <b>Principles of Microeconomics</b> [5]</p> <p>EC1108 <b>Skills for Economics 1</b> [5]</p> <p>-----</p> <p><i>Semester 2</i></p> <p>MP191 <b>Mathematical Methods I</b> [5]</p> <p>EC136 <b>Principles of Macroeconomics</b> [5]</p> | <p><i>Semester 1</i></p> <p>MA2286 <b>Differential Forms</b> [5]</p> <p>MA284 <b>Discrete Mathematics</b> [5]</p> <p>EC269 <b>Intermediate Microeconomics</b> [5]</p> <p>MP231 <b>Mathematical Methods I</b> [5]</p> <p>ST235 <b>Probability</b> [5]</p> <p>CS2101 <b>Programming for Science and Finance</b> [5]</p> <p>-----</p> <p><i>Semester 2</i></p> <p>MA283 <b>Algebra</b> [5]</p> <p>MA2287 <b>Complex Analysis</b> [5]</p> <p>EC268 <b>Intermediate Macroeconomics</b> [5]</p> <p>EC247 <b>Introduction to Financial Economics</b> [5]</p> <p>MP211 <b>Modelling, Analysis &amp; Simulation</b> [5]</p> <p>ST236 <b>Statistical Inference</b> [5]</p> | <p><i>Semester 1</i></p> <p>MA311 <b>Annuities &amp; Life Assurance</b> [5]</p> <p>ST313 <b>Applied Regression Models</b> [5]</p> <p>MA3343 <b>Groups</b> [5]</p> <p>MA341 <b>Metric Spaces</b> [5]</p> <p>EC369 <b>Money And Banking</b> [5]</p> <p>EC3101 <b>Microeconomics and Public Policy</b> [5]</p> <p>-----</p> <p><i>Semester 2</i></p> <p>AY314 <b>Business Finance II</b> [5]</p> <p>EC362 <b>Economics Of Financial Markets</b> [5]</p> <p>MP307 <b>Modelling II</b> [5]</p> <p>EC3102 <b>Macroeconomics and Public Policy</b> [5]</p> <p>ST412 <b>Stochastic Processes</b> [5]</p> <p>MA342 <b>Topology</b> [5]</p> | <p><i>Full Year – Semester 1 and Semester 2</i></p> <p>MP420 <b>Applied Mathematics Project</b> [10]*</p> <p>EC471 <b>Economics Project</b> [10]*</p> <p>-----</p> <p>MA430 <b>Mathematics Project</b> [10]*</p> <p>-----</p> <p><i>Semester 1</i></p> <p>MA495 <b>Actuarial Mathematics: Life Contingencies II</b> [5]</p> <p>EC411 <b>Economics Of Financial Markets Seminar II</b> [5]</p> <p>MA490 <b>Measure Theory</b> [5]</p> <p>MA385 <b>Numerical Analysis I</b> [5]</p> <p>-----</p> <p><i>Semester 2</i></p> <p>EC4100 <b>Derivatives and Risk Management</b> [5]</p> <p>MA418 <b>Differential Equations With Financial Derivatives</b> [5]</p> <p>EC420 <b>International Monetary Economics</b> [5]</p> <p>CS4423 <b>Networks</b> [5]</p> <p>MP491 <b>Non Linear Systems</b> [5]</p> <p>ST412 <b>Stochastic Processes</b> [5]</p> |
|  |  |   | * Select one 10-credit module   |

Module Descriptors for Years 1 to 4 are available at: [http://www.nuigalway.ie/science/undergraduate-courses/financial-mathematics-and-economics.html#course\\_outline](http://www.nuigalway.ie/science/undergraduate-courses/financial-mathematics-and-economics.html#course_outline)