



NUI Galway  
OÉ Gaillimh

College of Science

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Next page

# BSc FINANCIAL MATHEMATICS & ECONOMICS



[www.nuigalway.ie/science](http://www.nuigalway.ie/science)

## 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>
<p>There are 60 credits of Core modules.</p>	<p>There are 60 credits of Core modules.</p>	<p>There are 60 credits of Core modules.</p>	<p>There are 50 credits of Core modules.</p> <p>Choose one project module to a value of 10 credits:</p> <ul style="list-style-type: none"> <li>Economics Project</li> <li>Mathematical Physics Project</li> <li>Mathematics Project</li> </ul>

## BSc Financial Mathematics and Economics

Year 1	Year 2	Year 3	Year 4
<b>[Core: 60 credits]</b>	<b>[Core: 60 credits]</b>	<b>[Core: 60 credits]</b>	<b>[Core: 50 credits; Options: 10 credits]</b>
<u>Full Year – Semester 1 and Semester 2</u>	<u>Full Year – Semester 1 and Semester 2</u>	<u>Semester 1</u>	<u>Full Year – Semester 1 and Semester 2</u>
<p>MA180 <b>Mathematics (Honours) [15]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment (Summer)</li> <li>• Written Paper - 1 (Semester 1)</li> <li>• Written Paper - 2 (Semester 2)</li> </ul> <p>MA199 <b>Statistics &amp; Probability &amp; Maths Of Finance [15]</b></p> <ul style="list-style-type: none"> <li>• Written Paper - 1 (Semester 1)</li> <li>• Written Paper - 2 (Semester 2)</li> <li>• Written Paper - 3 (Semester 2)</li> </ul> <p><u>Semester 1</u></p> <p>CS103 <b>Computer Science [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>AY104 <b>Introduction to Financial Accounting [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC135 <b>Principles of Microeconomics [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC1108 <b>Skills for Economics 1 [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> </ul> <p>-----</p> <p><u>Semester 2</u></p> <p>MP191 <b>Mathematical Methods I [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC136 <b>Principles of Macroeconomics [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul>	<p>CS204 <b>Computer Science [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper (Summer)</li> </ul> <p><u>Semester 1</u></p> <p>MA2286 <b>Differential Forms [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul> <p>MA284 <b>Discrete Mathematics [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul> <p>EC269 <b>Intermediate Microeconomics [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MP231 <b>Mathematical Methods I [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>ST235 <b>Probability [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>-----</p> <p><u>Semester 2</u></p> <p>MA283 <b>Algebra [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MA2287 <b>Complex Analysis [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul> <p>EC268 <b>Intermediate Macroeconomics [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC247 <b>Introduction to Financial Economics [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MP211 <b>Modelling, Analysis &amp; Simulation [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>ST236 <b>Statistical Inference [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul>	<p>MA311 <b>Annuities &amp; Life Assurance [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> <li>• MCQ</li> </ul> <p>ST313 <b>Applied Regression Models [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MA3343 <b>Groups [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MA341 <b>Metric Spaces [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul> <p>EC369 <b>Money And Banking [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC3101 <b>Microeconomics and Public Policy [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>-----</p> <p><u>Semester 2</u></p> <p>AY314 <b>Business Finance II [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC362 <b>Economics Of Financial Markets [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MP307 <b>Modelling II [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul> <p>EC3102 <b>Macroeconomics and Public Policy [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MA310 <b>Actuarial Mathematics [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul> <p>MA342 <b>Topology [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul>	<p>MP420 <b>Applied Mathematics Project [10]*</b></p> <ul style="list-style-type: none"> <li>• Project (Summer)</li> </ul> <p>EC471 <b>Economics Project [10]*</b></p> <ul style="list-style-type: none"> <li>• Project (Summer)</li> </ul> <p>MA430 <b>Mathematics Project [10]*</b></p> <ul style="list-style-type: none"> <li>• Project (Summer)</li> </ul> <p>-----</p> <p><u>Semester 1</u></p> <p>MA495 <b>Actuarial Mathematics: Life Contingencies II [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC411 <b>Economics Of Financial Markets Seminar II [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MA490 <b>Measure Theory [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>MA385 <b>Numerical Analysis I [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul> <p>-----</p> <p><u>Semester 2</u></p> <p>MA418 <b>Differential Equations With Financial Derivatives [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC410 <b>Economics of Financial Markets Seminar I [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper</li> </ul> <p>EC420 <b>International Monetary Economics [5]</b></p> <ul style="list-style-type: none"> <li>• Written Paper (180)</li> </ul> <p>CS4423 <b>Networks [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul> <p>MP491 <b>Non Linear Systems [5]</b></p> <ul style="list-style-type: none"> <li>• Continuous Assessment</li> <li>• Written Paper</li> </ul>

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			<p>MA310 <b>Actuarial Mathematics</b> [5]</p> <ul style="list-style-type: none"> <li>• <i>Continuous Assessment</i></li> <li>• <i>Written Paper</i></li> </ul>
* Select one 15-credit module			* Select one 10-credit module