Structures by Major

Summary Information

Year	Major	Major Description	Stage	Credits	Details
2026	EMS1	Economics, Mathematics and Statistics	1	55.00	In order to study Mathematics,we strongly recommend that you have at least a Grade H3 in Leaving Certificate Mathematics, or equivalent. Please note STAT10050 must be taken in the Autumn trimester.

Core Modules

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
Autumn	COMP10010	Introduction to Programming I	5.00				
Autumn	ECON10770	Introduction to Economics	5.00				
Autumn	MST10010	Calculus I	5.00				
Autumn	MST10040	Combi & Number Theory	5.00				
Autumn and Spring (separate)	STAT10050	Practical Statistics	5.00				
Spring	ECON10010	Principles of Microeconomics	5.00				
Spring	ECON10020	Principles of Macroeconomics	5.00				
Spring	MST10020	Calculus II	5.00				
Spring	MST10030	Linear Algebra I	5.00				
Spring	STAT10060	Statistical Modelling	5.00				

Option Modules

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
A)MIN1OF: (EMS Options) **Select 1 module from the options list below. Additional options can be selected in place of electives.**							
Autumn	CSOC10010	Intro Comp Soc Sci	5.00				
Autumn	SPOL10010	Soc Pol Theories&Concepts I	5.00				
Autumn	SPOL10030	Understand Soc Prob & Policies	5.00				
Spring	IS10040	Info, Society, & Culture	5.00				
Spring	IS10060	Digital Technology	5.00				

Associated Programme(s)

Programme Code	Programme Description	Level	Major Code	Major Description	School Code	School Associated with the Major
BHSOC010	BSc Social Sciences	UG	EMS1	Economics,Maths&Statistics	S039	Central Office - College of Social Sciences and Law

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Structures by Major

Printed on 13 August 2026
by Vincent Astier

Summary Information

Year	Major	Major Description	Stage	Credits	Details
2026	EMS1	Economics, Mathematics and Statistics	2	55.00	

Core Modules

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
Autumn	ECON20010	Intermediate Microeconomics I	5.00				
Autumn	MST20010	Algebraic Structures	5.00				
Autumn	MST20070	Multivariable Calculus	5.00				
Autumn	STAT20110	Introduction to Probability	5.00				
Autumn	STAT20240	Predictive Analytics	5.00				
Spring	ECON20020	Intermediate Macroeconomics	5.00				
Spring	MST20040	Analysis	5.00				
Spring	MST20050	Linear Algebra II	5.00				
Spring	STAT20100	Inferential Statistics	5.00				
Spring	STAT20250	Data Programming with R	5.00				

Option Modules

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
A)MIN1OF: (EMS Options) **You must choose at least 1 option from the options list below. Additional options can be selected in place of electives.**							
Autumn	DEV20130	Sustainable Development Goals	5.00				
Autumn	ECON20190	Introduction to Financial Econ	5.00				
Autumn	ECON20240	R for Economists	5.00				
Spring	ECON20120	European Economy	5.00				
Spring	ECON20130	Economic History	5.00				
Spring	ECON20180	Intermediate Microeconomics II	5.00				
Spring	ECON20230	Economics, Organisation & Mgmt	5.00				

Structures by Major

Option Modules (continued)

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
B)MIN0OF: (Option list MIN0CR) **Students who plan to apply to transfer to Single Major Economics after Stage 2 (ECS5) should select Econometrics in SPRING in Stage 2 in place of an elective. Students will be required to have passed with a C+ grade or higher to be eligible to transfer.**							
Autumn and Spring (separate)	ECON30130	Econometrics	5.00				

Associated Programme(s)

Programme Code	Programme Description	Level	Major Code	Major Description	School Code	School Associated with the Major
BHSOC010	BSc Social Sciences	UG	EMS1	Economics,Maths&Statistics	S039	Central Office - College of Social Sciences and Law

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Structures by Major

Summary Information

Year	Major	Major Description	Stage	Credits	Details
2026	EMS1	Economics, Mathematics and Statistics	3	50.00	The Teaching Council requires students considering teaching mathematics to complete the following modules during the course of their programme: MST30050, MST30010, MST30070 and MST30040. MST30050 is a core module for all students in stage 3. MST30010, MST30070 and MST30040 are available as options in both stage 3 and stage 4.

Core Modules

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
Autumn	MST30050	Complex Analysis	5.00				
Autumn	STAT30010	Time Series Analysis	5.00				
Autumn and Spring (separate)	ECON30130	Econometrics	5.00				

Option Modules

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
A)MIN2OF: (Autumn Options) **Autumn Options: Please select a minimum of 10 credits from the options list below. Additional options can be selected in place of electives.**							
Autumn	ECON20190	Introduction to Financial Econ	5.00				
Autumn	ECON20240	R for Economists	5.00				
Autumn	ECON30100	Health Economics	5.00				
Autumn	ECON30150	International Money & Banking	5.00				
Autumn	ECON30180	Industrial Economics	5.00				
Autumn	ECON30270	Behavioural Economics	5.00				
Autumn	ECON30360	Labour Economics	5.00				
Autumn	ECON30410	Development Economics	5.00				
Autumn	ECON30630	Economics of Corporate Finance	5.00				
Autumn	MATH20150	Graphs and Networks	5.00				
Autumn	MST30010	Group Theory and Applications	5.00				
Autumn	MST30020	History of Mathematics	5.00				
Autumn	STAT30080	Models - Survival	5.00				
Autumn	STAT30090	Models - Stochastic Models	5.00				
Autumn	STAT30350	Intro to Bayesian Analysis	5.00				
Autumn	STAT40800	Data Prog with Python (online)	5.00				

Structures by Major

Option Modules (continued)

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
B)MIN0OF: (Min 0 of) **Students who are not studying abroad (Erasmus/non-EU exchange) and/or undertaking an internship must select MST30090 from the list below.** **Students who are studying abroad (Erasmus/non-EU exchange) and/or undertaking an Internship MUST NOT CHOOSE MST30090, as this module does not fulfill requirements for compliance.**							
Spring	MST30090	Skills for Math Sciences	5.00				

Structures by Major

Option Modules (continued)

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
C)MIN4OF: (Spring options) **Please select a minimum of 25 credits from the options list above and the options list below. A minimum of 20 credits should be selected from the option list below. If you are not studying abroad and/or undertaking an internship, please ensure you select MST30090 (the options list above). If you are studying abroad (Erasmus/non-EU exchange) and/or undertaking an internship, please see registration guidelines here. Students considering teaching mathematics should take MST30010, MST30070 and MST30040 over the course of stage 3 and 4. Additional options can be selected in place of electives.**							
Autumn	ECON30160	International Trade Economics	5.00				
Spring	ECON20100	Game Theory	5.00				
Spring	ECON30170	Intermediate Financial Econ	5.00				
Spring	ECON30190	Public Economics	5.00				
Spring	ECON30500	Field Experiments Social Sci	5.00				
Spring	ECON30580	Economics of Betting Markets	5.00				
Spring	ECON30600	Economics of Climate Change	5.00				
Spring	ECON30640	Machine Learning for Soc Sci	5.00				
Spring	MATH20070	Optimization in Finance	5.00				
Spring	MATH20270	Theory of Games	5.00				
Spring	MATH30250	Cryptography: Theory & Practic	5.00				
Spring	MATH30370	Markov Chains	5.00				
Spring	MATH30380	Financial Maths Foundations	5.00				
Spring	MST30040	Differential Equations	5.00				
Spring	MST30070	Differential Geometry	5.00				
Spring	STAT30270	Statistical Machine Lrng	5.00				
Spring	STAT40150	Multivariate Analysis	5.00				

Associated Programme(s)

Programme Code	Programme Description	Level	Major Code	Major Description	School Code	School Associated with the Major
BHSOC010	BSc Social Sciences	UG	EMS1	Economics,Maths&Statistics	S039	Central Office - College of Social Sciences and Law

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Structures by Major

Summary Information

Year	Major	Major Description	Stage	Credits	Details
2026	EMS1	Economics, Mathematics and Statistics	4	50.00	The Teaching Council requires students considering teaching mathematics to complete the following modules during the course of their programme: MST30050, MST30010, MST30070 and MST30040. MST30050 is a core module for all students in stage 3. MST30010, MST30070 and MST30040 are available as options in both stage 3 and stage 4.

Core Modules

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
Spring	STAT30250	Advanced Predictive Analytics	5.00				

Option Modules

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
A)MIN1OF: (Min 1 of:) **Select a minimum of 5 credits from the options list below. Students considering teaching mathematics should take MST30010, MST30070 and MST30040 over the course of stage 3 and 4.Additional options can be selected in place of electives.**							
Autumn	MATH20150	Graphs and Networks	5.00				
Autumn	MATH40550	Applied Matrix Theory	5.00				
Autumn	MST30010	Group Theory and Applications	5.00				
Autumn	MST30020	History of Mathematics	5.00				
Spring	MATH20070	Optimization in Finance	5.00				
Spring	MATH20270	Theory of Games	5.00				
Spring	MATH30250	Cryptography: Theory & Practic	5.00				
Spring	MATH30380	Financial Maths Foundations	5.00				
Spring	MST30040	Differential Equations	5.00				
Spring	MST30070	Differential Geometry	5.00				

Structures by Major

Option Modules (continued)

				Credit Allocation			
Trimester	**Module ID**	**Title**	**Credits**	**Autumn**	**Spring**	**Summer**	**Inactive Module?**
B)MIN20CR: (Required Credits min: 20 max: 40)(Research Learning Modules) **Students must select 40 credits overall from the options in the options list above and the options list below. Students must take a minimum of 20 credits from the options list below, which must include at least 10 credits of MST modules or 10 credits of STAT modules. The remaining 20 credits can be taken from either the options list above or the options list below. Additional options can be selected in place of electives.**							
Autumn	ECON30150	International Money & Banking	5.00				
Autumn	ECON30160	International Trade Economics	5.00				
Autumn	ECON30270	Behavioural Economics	5.00				
Autumn	ECON30290	Advanced Microeconomics	5.00				
Autumn	ECON30360	Labour Economics	5.00				
Autumn	ECON30410	Development Economics	5.00				
Autumn	ECON30590	Economics of Gender	5.00				
Autumn	STAT41020	Survey Sampling	5.00				
Spring	ECON30120	Advanced Macroeconomics	5.00				
Spring	ECON30190	Public Economics	5.00				
Spring	ECON30580	Economics of Betting Markets	5.00				
Spring	ECON30600	Economics of Climate Change	5.00				
Spring	ECON30640	Machine Learning for Soc Sci	5.00				
Spring	MST30080	Maths Research	10.00				
Spring	STAT40510	Applied Statistical Modelling	5.00				
C)MIN0OF: (Min 0 of) **Students may select options from the list below to fulfill stage requirements. Additional options can be selected in place of electives.**							
Autumn	ECON30100	Health Economics	5.00				
Autumn	ECON30180	Industrial Economics	5.00				
Autumn	ECON30400	Political Economy	5.00				
Autumn	ECON30540	Advd Econometrics: Time Series	5.00				
Autumn	ECON30630	Economics of Corporate Finance	5.00				
Autumn	STAT30080	Models - Survival	5.00				
Autumn	STAT30090	Models - Stochastic Models	5.00				
Autumn	STAT30350	Intro to Bayesian Analysis	5.00				
Autumn	STAT40020	Actuarial Statistics I	5.00				
Autumn	STAT40800	Data Prog with Python (online)	5.00				
Spring	ECON30170	Intermediate Financial Econ	5.00				
Spring	ECON30500	Field Experiments Social Sci	5.00				
Spring	ECON30530	Adv Metrics: Microeconometrics	5.00				
Spring	ECON30640	Machine Learning for Soc Sci	5.00				
Spring	STAT30270	Statistical Machine Lrng	5.00				
Spring	STAT40070	Actuarial Statistics II	5.00				
Spring	STAT40150	Multivariate Analysis	5.00				

Associated Programme(s)

Programme Code	Programme Description	Level	Major Code	Major Description	School Code	School Associated with the Major
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