

# **School of Mathematics, Statistics and Actuarial Science**

Head of School: Prof Peter Hydon  
School Web Site: [www.kent.ac.uk/smsas](http://www.kent.ac.uk/smsas)

**Please refer to the online Module Catalogue for full details of all modules:  
[www.kent.ac.uk/courses/modulecatalogue/](http://www.kent.ac.uk/courses/modulecatalogue/)**

Note: It is ultimately your responsibility to ensure that you are registered for the correct modules for your programme.

**Please select a link below to view the Stage 2+ requirements for your programme:**

- [Actuarial Science/Applied Actuarial Science \(PDIP\)](#)
- [Applied Actuarial Science \(MSC\)](#)
- [Applied Actuarial Science \(International Masters\)](#)
- [Applied Actuarial Science with an Industrial Placement](#)
- [International Masters in Statistics](#)
- [International Masters in Statistics \(with an Industrial Placement\)](#)
- [International Masters Statistics with Finance with an Industrial Placement](#)
- [Mathematics and Its Applications](#)
- [Mathematics and Its Applications \(International Masters\)](#)
- [Mathematics and Its Applications \(International Masters with an Industrial Placement\)](#)
- [Mathematics and Its Applications with an Industrial Placement](#)
- [Statistics](#)
- [Statistics with an Industrial Placement](#)
- [Statistics with Finance](#)
- [Statistics with Finance \(International Masters\)](#)
- [Statistics with Finance with an Industrial Placement](#)

**STAGE 1 - 120 credits - credit imbalance permitted (up to 75 credits per term)**

**You must take 120 credits from the following optional modules:**

At least 90 credits must be taken at Level 7.

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT3190	Probability and Statistics for Actuarial Science	15	Autumn	4	<a href="#">MA319</a>
MAST5010	Statistics for Insurance	15	Spring	5	<a href="#">MA501</a>
MACT5290	Probability and Statistics for Actuarial Science	15	Autumn	5	<a href="#">MA529</a>
MAST6390	Time Series Modelling and Simulation	15	Spring	6	<a href="#">MA639</a>
MACT8160	Contingencies 1	15	Autumn	7	<a href="#">MA816</a>
MACT8170	Contingencies 2	15	Spring	7	<a href="#">MA817</a>
MACT8190	Business Economics	15	Autumn	7	<a href="#">MA819</a>
MACT8200	Financial Mathematics	15	Autumn	7	<a href="#">MA820</a>
MACT8250	Survival Models	15	Autumn	7	<a href="#">MA825</a>
MACT8260	Finance & Financial Reporting	15	Autumn & Spring	7	<a href="#">MA826</a>
MACT8350	Portfolio Theory and Asset Pricing Models	15	Spring	7	<a href="#">MA835</a>
MAST8360	Stochastic Processes	15	Autumn	7	<a href="#">MA836</a>
MACT8370	Mathematics of Financial Derivatives	15	Spring	7	<a href="#">MA837</a>
MACT8400	Financial Modelling	15	Spring	7	<a href="#">MA840</a>

**STAGE 1 - 180 credits – credit imbalance permitted (up to 112.5 credits per term)**

**You must take the following compulsory modules (75 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT9210	Actuarial Risk Management 1	30	Autumn	7	<a href="#">MA921</a>
MACT9220	Actuarial Risk Management 2	30	Autumn & Spring	7	<a href="#">MA922</a>
MACT9530	Communications	15	Autumn & Spring	7	<a href="#">MA953</a>

**You must take 105 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT9090	Enterprise Risk Management	30	Autumn & Spring	7	<a href="#">MA909</a>
MACT9120	Life Insurance	30	Autumn & Spring	7	<a href="#">MA912</a>
MACT9140	Pensions and Other Benefits	30	Autumn & Spring	7	<a href="#">MA914</a>
MACT9150	Finance and Investment	30	Autumn & Spring	7	<a href="#">MA915</a>
MACT9160	Derivative Securities	30	Autumn & Spring	7	<a href="#">MA916</a>
MACT9170	General Insurance - Reserving and Capital Modelling	30	Autumn & Spring	7	<a href="#">MA917</a>
MACT9180	General Insurance - Premium Rating	30	Autumn & Spring	7	<a href="#">MA918</a>
MACT9230	Introduction to Actuarial Research	15	Autumn & Spring	7	<a href="#">MA923</a>
MACT9500	Prophet	15	Autumn	7	<a href="#">MA950</a>
MACT9510	Prophet 2	15	Spring	7	<a href="#">MA951</a>
MACT9520	Financial Modelling	15	Autumn & Spring	7	<a href="#">MA952</a>

**STAGE 1 - 120 credits - credit imbalance permitted (up to 75 credits per term)**

**You must take 120 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT3190	Probability and Statistics for Actuarial Science	15	Autumn	4	<a href="#">MA319</a>
MAST5010	Statistics for Insurance	15	Spring	5	<a href="#">MA501</a>
MACT5160	Contingencies 1	15	Autumn	5	<a href="#">MA516</a>
MACT5250	Survival Models	15	Autumn	6	<a href="#">MA525</a>
MACT5290	Probability and Statistics for Actuarial Science	15	Autumn	5	<a href="#">MA529</a>
MACT5330	Contingencies 2	15	Spring	6	<a href="#">MA533</a>
MACT5370	Mathematics of Financial Derivatives	15	Spring	6	<a href="#">MA537</a>
MAST6360	Stochastic Processes	15	Autumn	6	<a href="#">MA636</a>
MAST6390	Time Series Modelling and Simulation	15	Spring	6	<a href="#">MA639</a>
MACT7150	Financial Mathematics	15	Autumn	6	<a href="#">MA715</a>
MACT7260	Finance and Financial Reporting	15	Autumn & Spring	6	<a href="#">MA726</a>
MACT8190	Business Economics	15	Autumn	7	<a href="#">MA819</a>
MACT8350	Portfolio Theory and Asset Pricing Models	15	Spring	7	<a href="#">MA835</a>
MACT8400	Financial Modelling	15	Spring	7	<a href="#">MA840</a>

**STAGE 2 - 180 credits - credit imbalance permitted (up to 112.5 credits per term)**

**You must take the following compulsory modules (75 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT9210	Actuarial Risk Management 1	30	Autumn	7	<a href="#">MA921</a>
MACT9220	Actuarial Risk Management 2	30	Autumn & Spring	7	<a href="#">MA922</a>
MACT9530	Communications	15	Autumn & Spring	7	<a href="#">MA953</a>

**You must take 105 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT9090	Enterprise Risk Management	30	Autumn & Spring	7	<a href="#">MA909</a>
MACT9120	Life Insurance	30	Autumn & Spring	7	<a href="#">MA912</a>
MACT9140	Pensions and Other Benefits	30	Autumn & Spring	7	<a href="#">MA914</a>
MACT9150	Finance and Investment	30	Autumn & Spring	7	<a href="#">MA915</a>
MACT9160	Derivative Securities	30	Autumn & Spring	7	<a href="#">MA916</a>
MACT9170	General Insurance - Reserving and Capital Modelling	30	Autumn & Spring	7	<a href="#">MA917</a>
MACT9180	General Insurance - Premium Rating	30	Autumn & Spring	7	<a href="#">MA918</a>
MACT9230	Introduction to Actuarial Research	15	Autumn & Spring	7	<a href="#">MA923</a>
MACT9500	Prophet	15	Autumn	7	<a href="#">MA950</a>
MACT9510	Prophet 2	15	Spring	7	<a href="#">MA951</a>
MACT9520	Financial Modelling	15	Autumn & Spring	7	<a href="#">MA952</a>

# APPLIED ACTUARIAL SCIENCE WITH AN INDUSTRIAL PLACEMENT ACTSCIAP-S:MSC-T

Students can opt to undertake an industrial placement of between three months and 50 weeks as part of their MSc programme.

## STAGE 1 – 330 credits

You must take the following compulsory modules (75 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MACT9210	Actuarial Risk Management 1	30	Autumn	7	<a href="#">MA921</a>
MACT9220	Actuarial Risk Management 2	30	Autumn & Spring	7	<a href="#">MA922</a>
MACT9530	Communications	15	Autumn & Spring	7	<a href="#">MA953</a>

You must take 105 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MACT9090	Enterprise Risk Management	30	Autumn & Spring	7	<a href="#">MA909</a>
MACT9120	Life Insurance	30	Autumn & Spring	7	<a href="#">MA912</a>
MACT9140	Pensions and Other Benefits	30	Autumn & Spring	7	<a href="#">MA914</a>
MACT9150	Finance and Investment	30	Autumn & Spring	7	<a href="#">MA915</a>
MACT9160	Derivative Securities	30	Autumn & Spring	7	<a href="#">MA916</a>
MACT9170	General Insurance - Reserving and Capital Modelling	30	Autumn & Spring	7	<a href="#">MA917</a>
MACT9180	General Insurance - Premium Rating	30	Autumn & Spring	7	<a href="#">MA918</a>
MACT9230	Introduction to Actuarial Research	15	Autumn & Spring	7	<a href="#">MA923</a>
MACT9500	Prophet	15	Autumn	7	<a href="#">MA950</a>
MACT9510	Prophet 2	15	Spring	7	<a href="#">MA951</a>
MACT9520	Financial Modelling	15	Autumn & Spring	7	<a href="#">MA952</a>

(Year 2)

## 60-150 credits (3-12 months) – PLACEMENT MODULES

You must take the following compulsory module (30 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST7801	Industrial Placement Report and Presentation	30	Autumn & Spring	7	<a href="#">MA976</a>

Plus one of the following optional modules depending on the length of the placement:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST7802	Industrial Placement Experience (3 Months)*	30	Autumn	7	<a href="#">MA977</a>
MAST7803	Industrial Placement Experience (6 Months)*	60	Autumn & Spring <b>OR</b> Spring & Summer	7	<a href="#">MA978</a>
MAST7804	Industrial Placement Experience (9 Months)*	90	Year Long	7	<a href="#">MA979</a>
MAST7805	Industrial Placement Experience (12 Months)*	120	Year Long	7	<a href="#">MA991</a>

\*Module cannot be compensated or condoned

Students can opt to undertake an industrial placement of between three months and 50 weeks as part of their MSc programme.

**STAGE 1 – 300 credits**

**You must take 120 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT3190	Probability and Statistics for Actuarial Science	15	Autumn	4	<a href="#">MA319</a>
MAST5010	Statistics for Insurance	15	Spring	5	<a href="#">MA501</a>
MACT5160	Contingencies 1	15	Autumn	5	<a href="#">MA516</a>
MACT5250	Survival Models	15	Autumn	6	<a href="#">MA525</a>
MACT5290	Probability and Statistics for Actuarial Science	15	Autumn	5	<a href="#">MA529</a>
MACT5330	Contingencies 2	15	Spring	6	<a href="#">MA533</a>
MACT5370	Mathematics of Financial Derivatives	15	Spring	6	<a href="#">MA537</a>
MAST6360	Stochastic Processes	15	Autumn	6	<a href="#">MA636</a>
MAST6390	Time Series Modelling and Simulation	15	Spring	6	<a href="#">MA639</a>
MACT7150	Financial Mathematics	15	Autumn	6	<a href="#">MA715</a>
MACT7260	Finance and Financial Reporting	15	Autumn & Spring	6	<a href="#">MA726</a>
MACT8190	Business Economics	15	Autumn	7	<a href="#">MA819</a>
MACT8400	Financial Modelling	15	Spring	7	<a href="#">MA840</a>

(Year 2)

**You must take the following compulsory modules (75 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT9210	Actuarial Risk Management 1	30	Autumn	7	<a href="#">MA921</a>
MACT9220	Actuarial Risk Management 2	30	Autumn & Spring	7	<a href="#">MA922</a>
MACT9530	Communications	15	Autumn & Spring	7	<a href="#">MA953</a>

**You must take 105 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MACT9090	Enterprise Risk Management	30	Autumn & Spring	7	<a href="#">MA909</a>
MACT9120	Life Insurance	30	Autumn & Spring	7	<a href="#">MA912</a>
MACT9140	Pensions and Other Benefits	30	Autumn & Spring	7	<a href="#">MA914</a>
MACT9150	Finance and Investment	30	Autumn & Spring	7	<a href="#">MA915</a>
MACT9160	Derivative Securities	30	Autumn & Spring	7	<a href="#">MA916</a>
MACT9170	General Insurance - Reserving and Capital Modelling	30	Autumn & Spring	7	<a href="#">MA917</a>
MACT9180	General Insurance - Premium Rating	30	Autumn & Spring	7	<a href="#">MA918</a>
MACT9230	Introduction to Actuarial Research	15	Autumn & Spring	7	<a href="#">MA923</a>
MACT9500	Prophet	15	Autumn	7	<a href="#">MA950</a>
MACT9510	Prophet 2	15	Spring	7	<a href="#">MA951</a>
MACT9520	Financial Modelling	15	Autumn & Spring	7	<a href="#">MA952</a>

## 60-150 credits (3-12 months) – PLACEMENT MODULES

You must take the following compulsory module (30 credits):

<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7801	Industrial Placement Report and Presentation	30	Autumn & Spring	7	<a href="#">MA976</a>

Plus one of the following optional modules depending on the length of the placement:

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7802	Industrial Placement Experience (3 Months)*	30	Autumn	7	<a href="#">MA977</a>
MAST7803	Industrial Placement Experience (6 Months)*	60	Autumn & Spring <b>or</b> Spring & Summer	7	<a href="#">MA978</a>
MAST7804	Industrial Placement Experience (9 Months)*	90	Year Long	7	<a href="#">MA979</a>
MAST7805	Industrial Placement Experience (12 Months)*	120	Year Long	7	<a href="#">MA991</a>

\*Module cannot be compensated or condoned

**STAGE 1 – 120 credits - credit imbalance permitted (up to 75 credits per term)**

You must take the following compulsory modules (75 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST4004	Linear Algebra	15	Spring	4	<a href="#">MA346</a>
MAST4010	Real Analysis 1	15	Autumn	4	<a href="#">MA352</a>
MAST6020	Project in Statistics or Probability	15	Autumn	6	<a href="#">MA602</a>
MAST6007	Mathematical Statistics	15	Autumn	6	<a href="#">MA6507</a>
MAST6008	Applied Statistical Modelling 1	15	Spring	6	<a href="#">MA6508</a>

You must take 45 credits from the following optional modules (15 credits in Autumn and 30 credits in Spring):

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
ENLA6001	Advanced English for Academic Study in the Applied Sciences	15	Autumn & Spring	6	<a href="#">ENLA6001</a>
MAST5010	Statistics for Insurance	15	Spring	5	<a href="#">MA501</a>
MAST6360	Stochastic Processes	15	Autumn	6	<a href="#">MA636</a>
MAST6390	Time Series Modelling and Simulation	15	Spring	6	<a href="#">MA639</a>
MAST6029	Statistical Learning	15	Spring	6	<a href="#">MA6529</a>

**STAGE 2 – 180 credits – credit imbalance permitted (up to 120 credits per term)**

You must take the following compulsory modules (150 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST8580	Computational Statistics	15	Spring	7	<a href="#">MA858</a>
MAST8670	Project	60	Spring	7	<a href="#">MA867</a>
MAST8810	Probability and Classical Inference	15	Autumn	7	<a href="#">MA881</a>
MAST8820	Advanced Regression Modelling	15	Autumn	7	<a href="#">MA882</a>
MAST8830	Bayesian Statistics	15	Autumn	7	<a href="#">MA883</a>
MAST8840	Principles of Data Collection	15	Autumn & Spring	7	<a href="#">MA884</a>
MAST8900	Practical Statistics and Computing	15	Autumn & Spring	7	<a href="#">MA890</a>

You must take 30 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST8850	Stochastic Processes and Time Series	15	Autumn & Spring	7	<a href="#">MA885</a>
MAST7009	Advances in Statistics	15	Spring	7	<a href="#">MA7510</a>
MAST7029	Statistical Learning	15	Spring	7	<a href="#">MA7529</a>



**STAGE 1 (Year 1) – 300 Credits**

**You must take the following compulsory modules (75 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST4004	Linear Algebra	15	Spring	4	<a href="#">MA346</a>
MAST4010	Real Analysis 1	15	Autumn	4	<a href="#">MA352</a>
MAST6020	Project in Statistics or Probability	15	Autumn	6	<a href="#">MA602</a>
MAST6007	Mathematical Statistics	15	Autumn	6	<a href="#">MA6507</a>
MAST6008	Applied Statistical Modelling 1	15	Spring	6	<a href="#">MA6508</a>

**You must take 45 credits from the following optional modules (15 credits in Autumn and 30 credits in Spring):**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
ENLA6001	Advanced English for Academic Study in the Applied Sciences	15	Autumn & Spring	6	<a href="#">ENLA6001</a>
MAST5010	Statistics for Insurance	15	Spring	5	<a href="#">MA501</a>
MAST6360	Stochastic Processes	15	Autumn	6	<a href="#">MA636</a>
MAST6390	Time Series Modelling and Simulation	15	Spring	6	<a href="#">MA639</a>
MAST6029	Statistical Learning	15	Spring	6	<a href="#">MA6529</a>

(Year 2)

**You must take the following compulsory modules (120 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8580	Computational Statistics	15	Spring	7	<a href="#">MA858</a>
MAST8810	Probability and Classical Inference	15	Autumn	7	<a href="#">MA881</a>
MAST8820	Advanced Regression Modelling	15	Autumn	7	<a href="#">MA882</a>
MAST8830	Bayesian Statistics	15	Autumn	7	<a href="#">MA883</a>
MAST8840	Principles of Data Collection	15	Autumn & Spring	7	<a href="#">MA884</a>
MAST8900	Practical Statistics and Computing	15	Autumn & Spring	7	<a href="#">MA890</a>
MAST9750	Short Dissertation (Statistics)	30	Spring	7	<a href="#">MA975</a>

**You must take 30 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8850	Stochastic Processes and Time Series	15	Autumn & Spring	7	<a href="#">MA885</a>
MAST7009	Advances in Statistics	15	Spring	7	<a href="#">MA7510</a>
MAST7029	Statistical Learning	15	Spring	7	<a href="#">MA7529</a>

**STAGE 3 – 60-150 credits (3-12 months) – PLACEMENT MODULES**

**You must take the following compulsory module (30 credits):**

<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7801	Industrial Placement Report and Presentation	30	Autumn & Spring	7	<a href="#">MA976</a>

**Plus one of the following optional modules depending on the length of the placement:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
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MAST7802	Industrial Placement Experience (3 Months)*	30	Autumn	7	<a href="#">MA977</a>
MAST7803	Industrial Placement Experience (6 Months)*	60	Autumn & Spring <b>or</b> Spring & Summer	7	<a href="#">MA978</a>
MAST7804	Industrial Placement Experience (9 Months)*	90	Year Long	7	<a href="#">MA979</a>
MAST7805	Industrial Placement Experience (12 Months)*	120	Year Long	7	<a href="#">MA991</a>

\*Module cannot be compensated or condoned

**STAGE 1 (Year 1) – 300 Credits**

**You must take the following compulsory modules (75 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST4004	Linear Algebra	15	Spring	4	<a href="#">MA346</a>
MAST5013	Real Analysis 2	15	Autumn	5	<a href="#">MA5513</a>
MAST6020	Project in Statistics or Probability	15	Autumn	6	<a href="#">MA602</a>
MAST6007	Mathematical Statistics	15	Autumn	6	<a href="#">MA6507</a>
MAST6008	Applied Statistical Modelling 1	15	Spring	6	<a href="#">MA6508</a>

**You must take 45 credits from the following optional modules (15 credits in Autumn and 30 credits in Spring):**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
ENLA6001	Advanced English for Academic Study in the Applied Sciences	15	Autumn & Spring	6	<a href="#">ENLA6001</a>
MAST5010	Statistics for Insurance	15	Spring	5	<a href="#">MA501</a>
MAST6029	Statistical Learning	15	Spring	6	<a href="#">MA6529</a>
MAST6360	Stochastic Processes	15	Autumn	6	<a href="#">MA636</a>
MAST6390	Time Series Modelling and Simulation	15	Spring	6	<a href="#">MA639</a>

(Year 2)

**You must take the following compulsory modules (135 credits):**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8810	Probability and Classical Inference	15	Autumn	7	<a href="#">MA881</a>
MAST8820	Advanced Regression Modelling	15	Autumn	7	<a href="#">MA882</a>
MAST8830	Bayesian Statistics	15	Autumn	7	<a href="#">MA883</a>
MAST8860	Modelling of Time-Dependent Data and Financial Econometrics	15	Spring	7	<a href="#">MA886</a>
MAST8900	Practical Statistics and Computing	15	Autumn & Spring	7	<a href="#">MA890</a>
MAST9750	Short Dissertation (Statistics)	30	Spring	7	<a href="#">MA975</a>

**You must take 45 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7029	Statistical Learning	15	Spring	7	<a href="#">MA7529</a>
MAST8360	Stochastic Processes	15	Autumn	7	<a href="#">MA836</a>
MACT8370	Mathematics of Financial Derivatives	15	Spring	7	<a href="#">MA837</a>

**60-150 credits (3-12 months) – PLACEMENT MODULES**

**You must take the following compulsory module (30 credits):**

<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7801	Industrial Placement Report and Presentation	30	Autumn & Spring	7	<a href="#">MA976</a>

**Plus one of the following optional modules depending on the length of the placement:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7802	Industrial Placement Experience (3 Months)*	30	Autumn	7	<a href="#">MA977</a>

MAST7803	Industrial Placement Experience (6 Months)*	60	Autumn & Spring <b>OR</b> Spring & Summer	7	<a href="#">MA978</a>
MAST7804	Industrial Placement Experience (9 Months)*	90	Year Long	7	<a href="#">MA979</a>
MAST7805	Industrial Placement Experience (12 Months)*	120	Year Long	7	<a href="#">MA991</a>

\*Module cannot be compensated or condoned

**STAGE 1 - 120 credits - credit imbalance permitted (up to 75 credits per term)**

You must take the following compulsory module (15 credits):

<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7703	Communicating Mathematics	15	Autumn	7	<a href="#">MA7503</a>

You must take 105 credits from the following optional modules:

Students may take no more than 30 credits of level 6 modules.

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST5490	Discrete Mathematics	15	Autumn	6	<a href="#">MA549</a>
MAST5740	Polynomials in Several Variables	15	Autumn	6	<a href="#">MA574</a>
MAST5870	Numerical Solution of Differential Equations	15	Autumn	6	<a href="#">MA587</a>
MAST6018	Games and Strategy	15	Spring	6	<a href="#">MA6518</a>
MAST7001	Symmetry Methods for Differential Equations	15	Autumn	7	<a href="#">MA790</a>
MAST7002	Linear and Nonlinear Waves	15	Autumn	7	<a href="#">MA791</a>
MAST7003	Groups and Representations	15	Spring	7	<a href="#">MA776</a>
MAST7004	Quantum Mechanics	15	Autumn	7	<a href="#">MA967</a>
MAST7005	Operators and Matrices	15	Spring	7	<a href="#">MA792</a>
MAST7026	Orthogonal Polynomials and Special Functions	15	Spring	7	<a href="#">MA7526</a>
MAST7032	Topology	15	Autumn	7	<a href="#">MA7532</a>
MAST9620	Geometric Integration	15	Autumn & Spring	7	<a href="#">MA962</a>
MAST9640	Applied Algebraic Topology	15	Spring & Summer	7	<a href="#">MA964</a>
MAST9720	Algebraic Curves in Nature	15	Autumn	7	<a href="#">MA972</a>

**STAGE 2 - 60 credits**

You must take the following compulsory module (60 credits):

<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST9600	Dissertation	60	Summer	7	<a href="#">MA960</a>

**STAGE 1 - 120 credits - credit imbalance permitted (up to 75 credits per term)**

At least 80 credits must be at level 6.

**You must take 30 credits from the following compulsory modules:**

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST5003	Groups and Symmetries	15	Autumn	5	<a href="#">MA5503</a>
MAST5005	Linear Partial Differential Equations	15	Autumn	5	<a href="#">MA5505</a>
MAST5013	Real Analysis 2	15	Autumn	5	<a href="#">MA5513</a>

**You must take 90 credits from the following optional modules:**

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST5490	Discrete Mathematics	15	Autumn	6	<a href="#">MA549</a>
MAST5670	Topology	15	Autumn	6	<a href="#">MA567</a>
MAST5680	Orthogonal Polynomials and Special Functions	15	Spring	6	<a href="#">MA568</a>
MAST5740	Polynomials in Several Variables	15	Autumn	6	<a href="#">MA574</a>
MAST5870	Numerical Solution of Differential Equations	15	Autumn	6	<a href="#">MA587</a>
MAST6001	Symmetry Methods for Differential Equations	15	Autumn	6	<a href="#">MA690</a>
MAST6002	Linear and Nonlinear Waves	15	Autumn	6	<a href="#">MA691</a>
MAST6003	Groups and Representations	15	Spring	6	<a href="#">MA576</a>
MAST6004	Quantum Mechanics	15	Autumn	6	<a href="#">MA607</a>
MAST6005	Operators and Matrices	15	Spring	6	<a href="#">MA692</a>
MAST6018	Games and Strategy	15	Spring	6	<a href="#">MA6518</a>

**STAGE 2 - 120 credits - credit imbalance permitted (up to 75 credits per term)**

**You must take the following compulsory module (15 credits):**

<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7703	Communicating Mathematics	15	Autumn	7	<a href="#">MA7503</a>

**You must take 105 credits from the following optional modules:**

Students may take no more than 30 credits of level 6 modules.

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST5490	Discrete Mathematics	15	Autumn	6	<a href="#">MA549</a>
MAST5740	Polynomials in Several Variables	15	Autumn	6	<a href="#">MA574</a>
MAST5870	Numerical Solution of Differential Equations	15	Autumn	6	<a href="#">MA587</a>
MAST6018	Games and Strategy	15	Spring	6	<a href="#">MA6518</a>
MAST7001	Symmetry methods for differential equations	15	Autumn	7	<a href="#">MA790</a>
MAST7002	Linear and Nonlinear Waves	15	Autumn	7	<a href="#">MA791</a>
MAST7003	Groups and Representations	15	Spring	7	<a href="#">MA776</a>
MAST7004	Quantum Mechanics	15	Autumn	7	<a href="#">MA967</a>
MAST7005	Operators and Matrices	15	Spring	7	<a href="#">MA792</a>
MAST7026	Orthogonal Polynomials and Special Functions	15	Spring	7	<a href="#">MA7526</a>
MAST7032	Topology	15	Autumn	7	<a href="#">MA7532</a>
MAST9620	Geometric Integration	15	Autumn & Spring	7	<a href="#">MA962</a>
MAST9640	Applied Algebraic Topology	15	Spring & Summer	7	<a href="#">MA964</a>
MAST9720	Algebraic Curves in Nature	15	Autumn	7	<a href="#">MA972</a>

**STAGE 3 - 60 credits**

**You must take the following compulsory module (60 credits):**

<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST9600	Dissertation	60	Summer	7	<a href="#">MA960</a>

**MATHEMATICS AND ITS APPLICATIONS  
(INTERNATIONAL MASTERS WITH AN INDUSTRIAL PLACEMENT)**

**MATHAPS-S-I:MSC-T**

**STAGE 1 – 300 Credits**

You must take 30 credits from the following compulsory modules:

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST5003	Groups and Symmetries	15	Autumn	5	<a href="#">MA5503</a>
MAST5005	Linear Partial Differential Equations	15	Autumn	5	<a href="#">MA5505</a>
MAST5013	Real Analysis 2	15	Autumn	5	<a href="#">MA5513</a>

You must take 90 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST5490	Discrete Mathematics	15	Autumn	6	<a href="#">MA549</a>
MAST5670	Topology	15	Autumn	6	<a href="#">MA567</a>
MAST5680	Orthogonal Polynomials and Special Functions	15	Spring	6	<a href="#">MA568</a>
MAST5740	Polynomials in Several Variables	15	Autumn	6	<a href="#">MA574</a>
MAST5870	Numerical Solution of Differential Equations	15	Autumn	6	<a href="#">MA587</a>
MAST6001	Symmetry Methods for Differential Equations	15	Autumn	6	<a href="#">MA690</a>
MAST6002	Linear and Nonlinear Waves	15	Autumn	6	<a href="#">MA691</a>
MAST6003	Groups and Representations	15	Spring	6	<a href="#">MA576</a>
MAST6004	Quantum Mechanics	15	Autumn	6	<a href="#">MA607</a>
MAST6005	Operators and Matrices	15	Spring	6	<a href="#">MA692</a>
MAST6018	Games and Strategy	15	Spring	6	<a href="#">MA6518</a>

(Year 2)

You must take the following compulsory modules (45 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST7703	Communicating Mathematics	15	Autumn	7	<a href="#">MA7503</a>
MAST9740	Short Dissertation (Mathematics)	30	Summer	7	<a href="#">MA974</a>

You must take 105 credits from the following optional modules:

Students may take no more than 30 credits of level 6 modules.

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST5490	Discrete Mathematics	15	Autumn	6	<a href="#">MA549</a>
MAST5740	Polynomials in Several Variables	15	Autumn	6	<a href="#">MA574</a>
MAST5870	Numerical Solution of Differential Equations	15	Autumn	6	<a href="#">MA587</a>
MAST6018	Games and Strategy	15	Spring	6	<a href="#">MA6518</a>
MAST7001	Symmetry methods for differential equations	15	Autumn	7	<a href="#">MA790</a>
MAST7002	Linear and Nonlinear Waves	15	Autumn	7	<a href="#">MA791</a>
MAST7003	Groups and Representations	15	Spring	7	<a href="#">MA776</a>
MAST7004	Quantum Mechanics	15	Autumn	7	<a href="#">MA967</a>
MAST7005	Operators and Matrices	15	Spring	7	<a href="#">MA792</a>
MAST7026	Orthogonal Polynomials and Special Functions	15	Spring	7	<a href="#">MA7526</a>
MAST7032	Topology	15	Autumn	7	<a href="#">MA7532</a>
MAST9620	Geometric Integration	15	Autumn & Spring	7	<a href="#">MA962</a>
MAST9640	Applied Algebraic Topology	15	Spring & Summer	7	<a href="#">MA964</a>
MAST9720	Algebraic Curves in Nature	15	Autumn	7	<a href="#">MA972</a>

**60-150 credits (3-12 months) – PLACEMENT MODULES**

You must take the following compulsory module (30 credits):



<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7801	Industrial Placement Report and Presentation	30	Autumn & Spring	7	<a href="#">MA976</a>

Plus one of the following optional modules depending on the length of the placement:

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7802	Industrial Placement Experience (3 Months)*	30	Autumn	7	<a href="#">MA977</a>
MAST7803	Industrial Placement Experience (6 Months)*	60	Autumn & Spring <b>or</b> Spring & Summer	7	<a href="#">MA978</a>
MAST7804	Industrial Placement Experience (9 Months)*	90	Year Long	7	<a href="#">MA979</a>
MAST7805	Industrial Placement Experience (12 Months)*	120	Year Long	7	<a href="#">MA991</a>

\*Module cannot be compensated or condoned

**MATHEMATICS AND ITS APPLICATIONS  
WITH AN INDUSTRIAL PLACEMENT**

**MATHAPS-S:MSC-T**

**STAGE 1 – 300 credits**

You must take the following compulsory module (15 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST7703	Communicating Mathematics	15	Autumn	7	<a href="#">MA7503</a>

You must take 105 credits from the following optional modules:

Students may take no more than 30 credits of Level 6 modules.

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST5490	Discrete Mathematics	15	Autumn	6	<a href="#">MA549</a>
MAST5740	Polynomials in Several Variables	15	Autumn	6	<a href="#">MA574</a>
MAST5870	Numerical Solution of Differential Equations	15	Autumn	6	<a href="#">MA587</a>
MAST6018	Games and Strategy	15	Spring	6	<a href="#">MA6518</a>
MAST7001	Symmetry Methods for Differential Equations	15	Autumn	7	<a href="#">MA790</a>
MAST7002	Linear and Nonlinear Waves	15	Autumn	7	<a href="#">MA791</a>
MAST7003	Groups and Representations	15	Spring	7	<a href="#">MA776</a>
MAST7004	Quantum Mechanics	15	Autumn	7	<a href="#">MA967</a>
MAST7005	Operators and Matrices	15	Spring	7	<a href="#">MA792</a>
MAST7026	Orthogonal Polynomials and Special Functions	15	Spring	7	<a href="#">MA7526</a>
MAST7032	Topology	15	Autumn	7	<a href="#">MA7532</a>
MAST9620	Geometric Integration	15	Autumn & Spring	7	<a href="#">MA962</a>
MAST9640	Applied Algebraic Topology	15	Spring & Summer	7	<a href="#">MA964</a>
MAST9720	Algebraic Curves in Nature	15	Autumn	7	<a href="#">MA972</a>

(Year 2)

**90-180 credits (3-12 months) – PLACEMENT MODULES**

You must take the following compulsory modules (60 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST9740	Short Dissertation (Mathematics)	30	Spring	7	<a href="#">MA974</a>
MAST7801	Industrial Placement Report and Presentation	30	Autumn & Spring	7	<a href="#">MA976</a>

Plus one of the following optional modules depending on the length of the placement:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST7802	Industrial Placement Experience (3 Months)*	30	Autumn	7	<a href="#">MA977</a>
MAST7803	Industrial Placement Experience (6 Months)*	60	Autumn & Spring <b>or</b> Spring & Summer	7	<a href="#">MA978</a>
MAST7804	Industrial Placement Experience (9 Months)*	90	Year Long	7	<a href="#">MA979</a>
MAST7805	Industrial Placement Experience (12 Months)*	120	Year Long	7	<a href="#">MA991</a>

\*Module cannot be compensated or condoned

**STAGE 1 – 180 credits - credit imbalance permitted (up to 120 credits per term)**

You must take the following compulsory modules (150 credits):

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8580	Computational Statistics	15	Spring	7	<a href="#">MA858</a>
MAST8670	Project	60	Spring	7	<a href="#">MA867</a>
MAST8810	Probability and Classical Inference	15	Autumn	7	<a href="#">MA881</a>
MAST8820	Advanced Regression Modelling	15	Autumn	7	<a href="#">MA882</a>
MAST8830	Bayesian Statistics	15	Autumn	7	<a href="#">MA883</a>
MAST8840	Principles of Data Collection	15	Autumn & Spring	7	<a href="#">MA884</a>
MAST8900	Practical Statistics and Computing	15	Autumn & Spring	7	<a href="#">MA890</a>

You must take 30 credits from the following optional modules:

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8850	Stochastic Processes and Time Series	15	Autumn & Spring	7	<a href="#">MA885</a>
MAST7009	Advances in Statistics	15	Spring	7	<a href="#">MA7510</a>
MAST7029	Statistical Learning	15	Spring	7	<a href="#">MA7529</a>

**STAGE 1 – 300 credits (12 months)**

You must take the following compulsory modules (120 credits):

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8580	Computational Statistics	15	Spring	7	<a href="#">MA858</a>
MAST8810	Probability and Classical Inference	15	Autumn	7	<a href="#">MA881</a>
MAST8820	Advanced Regression Modelling	15	Autumn	7	<a href="#">MA882</a>
MAST8830	Bayesian Statistics	15	Autumn	7	<a href="#">MA883</a>
MAST8840	Principles of Data Collection	15	Autumn & Spring	7	<a href="#">MA884</a>
MAST8900	Practical Statistics and Computing	15	Autumn & Spring	7	<a href="#">MA890</a>
MAST9750	Short Dissertation (Statistics)	30	Spring	7	<a href="#">MA975</a>

You must take 30 credits from the following optional modules:

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8850	Stochastic Processes and Time Series	15	Autumn & Spring	7	<a href="#">MA885</a>
MAST7009	Advances in Statistics	15	Spring	7	<a href="#">MA7510</a>
MAST7029	Statistical Learning	15	Spring	7	<a href="#">MA7529</a>

(Year 2)

**60-150 credits (3-12 months) – PLACEMENT MODULES**

You must take the following compulsory module (30 credits):

<b>Compulsory module:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7801	Industrial Placement Report and Presentation	30	Autumn & Spring	7	<a href="#">MA976</a>

Plus one of the following optional modules depending on the length of the placement:

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7802	Industrial Placement Experience (3 Months)*	30	Autumn	7	<a href="#">MA977</a>
MAST7803	Industrial Placement Experience (6 Months)*	60	Autumn & Spring <b>OR</b> Spring & Summer	7	<a href="#">MA978</a>
MAST7804	Industrial Placement Experience (9 Months)*	90	Year Long	7	<a href="#">MA979</a>
MAST7805	Industrial Placement Experience (12 Months)*	120	Year Long	7	<a href="#">MA991</a>

\*Module cannot be compensated or condoned

**STAGE 1 – 180 credits – credit imbalance permitted (up to 127.5 credits per term)**

You must take the following compulsory modules (135 credits):

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8670	Project	60	Spring	7	<a href="#">MA867</a>
MAST8810	Probability and Classical Inference	15	Autumn	7	<a href="#">MA881</a>
MAST8820	Advanced Regression Modelling	15	Autumn	7	<a href="#">MA882</a>
MAST8830	Bayesian Statistics	15	Autumn	7	<a href="#">MA883</a>
MAST8860	Modelling of Time-Dependent Data and Financial Econometrics	15	Spring	7	<a href="#">MA886</a>
MAST8900	Practical Statistics and Computing	15	Autumn & Spring	7	<a href="#">MA890</a>

You must take 45 credits from the following optional modules:

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7029	Statistical Learning	15	Spring	7	<a href="#">MA7529</a>
MACT8350	Portfolio Theory and Asset Pricing Models	15	Spring	7	<a href="#">MA835</a>
MAST8360	Stochastic Processes	15	Autumn	7	<a href="#">MA836</a>
MACT8370	Mathematics of Financial Derivatives	15	Spring	7	<a href="#">MA837</a>

**STAGE 1 – 120 credits - credit imbalance permitted (up to 75 credits per term)**

You must take the following compulsory modules (75 credits):

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST4004	Linear Algebra	15	Spring	4	<a href="#">MA346</a>
MAST4010	Real Analysis 1	15	Autumn	4	<a href="#">MA352</a>
MAST6020	Project in Statistics or Probability	15	Autumn	6	<a href="#">MA602</a>
MAST6007	Mathematical Statistics	15	Autumn	6	<a href="#">MA6507</a>
MAST6008	Applied Statistical Modelling 1	15	Spring	6	<a href="#">MA6508</a>

You must take 45 credits from the following optional modules:

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
ENLA6001	Advanced English for Academic Study in the Applied Sciences	15	Autumn & Spring	6	<a href="#">ENLA6001</a>
MAST5010	Statistics for Insurance	15	Spring	5	<a href="#">MA501</a>
MAST6029	Statistical Learning	15	Spring	6	<a href="#">MA6529</a>
MAST6360	Stochastic Processes	15	Autumn	6	<a href="#">MA636</a>
MAST6390	Time Series Modelling and Simulation	15	Spring	6	<a href="#">MA639</a>

**STAGE 2 – 180 credits - credit imbalance permitted (up to 127.5 credits per term)**

You must take the following compulsory modules (135 credits):

<b>Compulsory modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST8670	Project	60	Spring	7	<a href="#">MA867</a>
MAST8810	Probability and Classical Inference	15	Autumn	7	<a href="#">MA881</a>
MAST8820	Advanced Regression Modelling	15	Autumn	7	<a href="#">MA882</a>
MAST8830	Bayesian Statistics	15	Autumn	7	<a href="#">MA883</a>
MAST8860	Modelling of Time-Dependent Data and Financial Econometrics	15	Spring	7	<a href="#">MA886</a>
MAST8900	Practical Statistics and Computing	15	Autumn & Spring	7	<a href="#">MA890</a>

You must take 45 credits from the following optional modules:

<b>Optional modules:</b>	<b>MODULE TITLE</b>	<b>CREDIT AMOUNT</b>	<b>TERM TAUGHT</b>	<b>CREDIT LEVEL</b>	<b>SDS CODE</b>
MAST7029	Statistical Learning	15	Spring	7	<a href="#">MA7529</a>
MACT8350	Portfolio Theory and Asset Pricing Models	15	Spring	7	<a href="#">MA835</a>
MAST8360	Stochastic Processes	15	Autumn	7	<a href="#">MA836</a>
MACT8370	Mathematics of Financial Derivatives	15	Spring	7	<a href="#">MA837</a>

**STAGE 1 – 300 credits - credit imbalance permitted (up to 75 credits per term)**

You must take the following compulsory modules (105 credits):

Compulsory modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST8810	Probability and Classical Inference	15	Autumn	7	<a href="#">MA881</a>
MAST8820	Advanced Regression Modelling	15	Autumn	7	<a href="#">MA882</a>
MAST8830	Bayesian Statistics	15	Autumn	7	<a href="#">MA883</a>
MAST8860	Modelling of Time-Dependent Data and Financial Econometrics	15	Spring	7	<a href="#">MA886</a>
MAST8900	Practical Statistics and Computing	15	Autumn & Spring	7	<a href="#">MA890</a>
MAST9750	Short Dissertation (Statistics)	30	Spring	7	<a href="#">MA975</a>

You must take 45 credits from the following optional modules:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST6029	Statistical Learning	15	Spring	6	<a href="#">MA6529</a>
MACT8350	Portfolio Theory and Asset Pricing Models	15	Spring	7	<a href="#">MA835</a>
MAST8360	Stochastic Processes	15	Autumn	7	<a href="#">MA836</a>
MACT8370	Mathematics of Financial Derivatives	15	Spring	7	<a href="#">MA837</a>

(Year 2)

**60-150 credits (3-12 months) – PLACEMENT MODULES**

You must take the following compulsory module (30 credits):

Compulsory module:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST7801	Industrial Placement Report and Presentation	30	Autumn & Spring	7	<a href="#">MA976</a>

Plus one of the following optional modules depending on the length of the placement:

Optional modules:	MODULE TITLE	CREDIT AMOUNT	TERM TAUGHT	CREDIT LEVEL	SDS CODE
MAST7802	Industrial Placement Experience (3 Months)*	30	Autumn	7	<a href="#">MA977</a>
MAST7803	Industrial Placement Experience (6 Months)*	60	Autumn & Spring <b>OR</b> Spring & Summer	7	<a href="#">MA978</a>
MAST7804	Industrial Placement Experience (9 Months)*	90	Year Long	7	<a href="#">MA979</a>
MAST7805	Industrial Placement Experience (12 Months)*	120	Year Long	7	<a href="#">MA991</a>

\*Module cannot be compensated or condoned