

## Programme Regulations: 2025/26

### Programme Titles:

**Master of Science in Statistics - Code 5518F**

**Master of Science in Medical Statistics - Code 5519F**

#### Notes

- (i) *These programme regulations should be read in conjunction with the University's Taught Programme Regulations.*
- (ii) *A compulsory module is a module which a student is required to study.*
- (iii) *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*
- (iv) *Optional modules may not be selected for which credit has been gained on a related module on a previous Newcastle University programme.*

### 1. Programmes Structure

- (a) The programmes are available for study in full-time mode only
- (b) The period of study for full-time mode shall be 1 year.
- (c) The programmes comprise modules to a credit value of 180.
- (d) All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Type	Mode
MAS8600	Graduate Foundations of Statistics and Data Science	30	30			7	Compulsory	Block
MAS8601	Graduate Foundations of Probability and Mathematical Statistics	30	30			7	Compulsory	Block

- (e) MSc Medical Statistics candidates (5519F) shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Type	Mode
HSC8100	Clinical Trials with Advanced Topics	10		10		7	Compulsory	Linear
HSC8101	Decision Modelling for Health Data Science with Advanced Topics	10		10		7	Compulsory	Linear
HSC8102	Advanced Topics in Medical	10		10		7	Compulsory	Linear

	Statistics and Health Data Science							
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(f) MSc Statistics candidates (5518F) will choose one 60 credit module from the list below:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Level</i>	<i>Type</i>	<i>Mode</i>
MAS8603	Dissertation in Statistics	60			60	7	Optional	Linear
MAS8605	Industrial Dissertation in Statistics and Data Science	60			60	7	Optional	Linear

(g) MSc Medical Statistics candidates (5519F) will choose one 60 credit module from the list below:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Level</i>	<i>Type</i>	<i>Mode</i>
HSC8198	Dissertation In Medical Statistics	60			60	7	Optional	Linear
MAS8605	Industrial Dissertation in Statistics and Data Science	60			60	7	Optional	Linear

(h) All candidates shall take optional modules from the following list. MSc Statistics candidates (5518F) shall select to a total value of 60 credits, and MSc Medical Statistics candidates (5519F) shall select to a total value of 30 credits.  
(This will exclude all modules already identified as compulsory above).

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Level</i>	<i>Type</i>	<i>Mode</i>
HSC8100	Clinical Trials with Advanced Topics	10		10		7		Linear
HSC8101	Decision Modelling for Health Data Science with Advanced Topics	10		10		7		Linear
HSC8102	Advanced Topics in Medical Statistics and Health Data Science	10		10		7		Linear
MAS8607	Foundations of Machine Learning with Advanced Topics	10		10		7		Linear
MAS8608	Experimental Design with Advanced Topics	10		10		7		Linear
MAS8610	Extreme Value Theory with Advanced Topics	10		10		7		Linear

MAS8612	Survival Analysis with Advanced Topics	10		10		7		Linear
MAS8613	Time Series with Advanced Topics	10		10		7		Linear
MAS8614	Stochastic Financial Modelling with Advanced Topics	10		10		7		Linear
MAS8615	Statistical Genetics with Advanced Topics	10		10		7		Linear

With the approval of the Degree Programme Director and depending upon the academic background of the candidate, alternative optional modules to those listed above may be selected.

## **2. Assessment methods**

Details of the assessment pattern for each module are explained in the module outline.