

## **SCHOOL OF MATHEMATICS, STATISTICS & PHYSICS**

### **Stage 3 Maths & Stats Pre-registration Information for 2018/19**

#### **All Single Honours Maths/Stats degrees**

Students are expected to pre-register for sets of modules. Choose one from the Semester 1 sets and pre-register for the modules in this set. Choose one from the Semester 2 sets and pre-register for the modules in this set. Except as described below, departure from these sets is only permitted with special permission of the Degree Programme Director and this can only be granted on the basis of unusual circumstances (it will not be granted on the basis of a personal preference for some modules over others). However changes to module selections may be made in September if the timetable allows, at which time any selection that meets the requirements of the degree programme regulations may be made. Please note:

- You are required to pre-register for 60 credits in each semester.
- It is important to pay attention to pre-requisites and especially to co-requisites. Note that 'co-requisites' can include Semester 1 modules required in order to study Semester 2 modules.

#### **Generic (G100, GG13, G300, G103, GGC3)**

Students are expected to select from sets 1 - 24 in Semester 1 and from sets 31 - 60 in Semester 2. Please note:

- You may not pre-register for modules outside the School of Mathematics & Statistics, except that you may replace modules in the given sets by an NCL module (NCL3007 or NCL3008) or by the Enterprise module SUG3500 (but not for more than 20 credits in total).

**G100** – as for Generic except:

You must pre-register for at least 60 credits of Mathematics modules (i.e., MAS37\*\* or MAS38\*\*).

**GG13** – as for Generic except:

You must pre-register for at least 40 credits of Mathematics modules (i.e., MAS37\*\* or MAS38\*\*) and for at least 40 credits of Statistics modules (i.e., MAS39\*\*).

**G300** – as for Generic except:

You must pre-register for MAS3903 in Semester 1 and MAS3906 in Semester 2, and you must pre-register for at least 40 more credits of Statistics modules (i.e., MAS39\*\*).

#### **G100/GG13/G300**

If you wish to keep open the possibility of transferring to a 4 year degree programme you should select modules that meet the requirements of 4 year programmes as detailed on the next page.

The choice for students on 4 year programmes is more limited. The Stage 4 versions of Stage 3 modules that will probably be available in 2018/19 are noted on the next page (after consideration of GGC3 and G103). If you are currently registered for a 4 year degree (GGC3 or G103) and you already know that you wish to transfer to 3 year degree in Stage 3, then you should complete a DPD request form as soon as possible.

**GGC3** – as for Generic except:

Students must take MAS3902 and MAS3903 in Semester 1 and MAS3906 in Semester 2. They are expected to take MAS3901 and MAS3905 in Semester 1, although MAS3905 may be deferred to Stage 4 if necessary.

Hence, students are expected to select from sets 9, 10, 11, 12, 16, 17 or 20 in Semester 1 and from sets 32, 35, 38, 42, 44, 45, 46, 47, 48, 49, 50, 53, 54, 55, 56, 57, 58, 59 in Semester 2. You are recommended to pre-register for at least 60 credits of Statistics modules. Note that you will need to take at least 150 credits of Statistics modules over Stages 3 and 4.

**G103** – as for Generic except:

- a) Students wishing to specialise in Pure Mathematics must take MAS3701 and MAS3702 in Semester 1 and MAS3706 in Semester 2. They are expected to pre-register for MAS3705 in Semester 1 and either MAS3708 or MAS3709 in Semester 2, although MAS3705 may be deferred to Stage 4 if necessary.

Hence, students are expected to select from sets 1, 2, 3, 4, 13, 16, 17 in Semester 1 and from sets 31, 32, 33, 34, 35, 36, 40, 41, 47, 48 in Semester 2.

You are recommended to pre-register for at least 60 credits of Pure Maths modules.

- b) Students wishing to specialise in Applied Mathematics must take MAS3801 in Semester 1. They are expected to pre-register for MAS3802 and MAS3803 in Semester 1, and MAS3805 and MAS3807 in Semester 2.

Hence, students are expected to select from sets 5, 6, 7, 8, 13, 15, 20 in Semester 1 and from sets 33, 37, 38, 40, 42, 43, 50, 52, 56, 58 in Semester 2.

You are recommended to pre-register for at least 60 credits of Applied Maths modules.

- It is possible to hold open possibilities of both GGC3 and G103 (Pure Mathematics) in Stage 4 by selecting one of sets 16, 17 in Semester 1 and one of sets 32, 35, 47, 48 in Semester 2.
- It is possible to hold open possibilities of both GGC3 and G103 (Applied Mathematics) in Stage 4 by selecting set 20 in Semester 1 and one of sets 38, 42, 50, 56, 58 in Semester 2.
- It is possible to hold open possibilities of both Applied Mathematics and Pure Mathematics in G103 by selecting set 13 in Semester 1 and one of sets 33, 40 in Semester 2.

### **Stage 4 modules in 2019/20**

The following Stage 4 versions of Stage 3 modules are expected to be available in 2019/20:

Pure: MAS8703 (Geometries and Designs), MAS8704 (Coding Theory), MAS8705 (Matrix Analysis), MAS8708 (Graphs and Symmetry), MAS8709 (Representation Theory).

Applied: MAS8804 (Relativity and Cosmology), MAS8806 (Partial Differential Equations and Nonlinear Waves), MAS8808 (Instabilities), MAS8809 (Variational Methods).

Statistics: MAS8904 (Stochastic Financial Modelling), MAS8905 (Statistical Inference), MAS8907 (Big Data Analytics), MAS8909 (Markov Processes), MAS8911 (Time Series).

In the lists above, all the modules referred to are 10 credits. If the module doesn't currently exist, you can look up the corresponding Stage 3 module (e.g., MAS3806 if you are interested in MAS8806).

### **G1N2**

This programme has compulsory modules ACC3000 and BUS3000 (each 20 credits). Students are expected to select from sets 101 - 108 in Semester 1 and from sets 111 - 117 in Semester 2. There are no options to take modules outside the School such as NCL3007.

### **G1N3**

This programme has compulsory modules ACC3000 and ACC3006 (each 20 credits) together with MAS3904 (10 credits). Students are expected to select from sets 103, 104, 105, 107 (ignoring MAS3904) in Semester 1 and from sets 111 - 117 in Semester 2. There are no options to take modules outside the School such as NCL3007.