

# M.Sc. in Mathematical Modelling and Scientific Computing

## Checklist for Discussion with Supervisor and Course Organiser

Please complete the checklist below and return it to the course organiser, Kathryn Gillow, by Friday of week 4 (2nd November).

Note that there are two routes through the course. Strand C is the coursework-intensive option while strand R is the research-intensive option. To complete this course all students must complete 12 units, counted as follows:

- **Core courses** (1 unit each): normally 24 lectures + classes + exam. There are four core courses: one on Mathematical Methods and one on Numerical Analysis in each of MT and HT. Each course will be assessed by a written examination on Thursday of Week 0 of the following term. Every student must complete the two core courses in MT. [The only exception is that a student who has already completed one of these courses as an Oxford undergraduate may arrange (with the Course Coordinator in Week 0 of MT) to take one of the core courses in HT instead.]
- **Special topics** (1 unit each): normally 12–16 lectures + mini-project. Each student must do at least one special topic in the area of Modelling (M) and one in the area of Computation (C).
- **Case Studies in Modelling and in Scientific Computing** (0.5 unit each): normally 4 weeks of group work + oral presentation + report (HT). Each student must do at least one modelling case study and at least one scientific computing case study.
- **Dissertation**: 4 units for Strand C (~ 50 pages, not necessarily original) or 6 units for Strand R (~ 65 pages, some original ideas).

Strand C (coursework) students will normally accumulate 4 units for core courses + 3 units for special topics + 1 unit for case studies + 4 units for dissertation. Strand R (research) students will normally accumulate 2 units for core courses + 3 units for special topics + 1 unit for case studies + 6 units for dissertation.

(MT, HT, TT = Michaelmas, Hilary, Trinity Term)

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Name: .....

### Number of Units

#### Core Courses

List the core courses you intend to follow

(1) .....

(2) .....

(3) .....

(4) .....

.....

#### Special Topics

Indicate how many special topics you intend to submit.

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#### Case Studies

Indicate how many units of case studies you intend to submit.

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(A case study is worth 0.5 unit.)

#### Dissertation

Indicate whether you intend to complete a 4 unit (strand C)  
or 6 unit (strand R) dissertation.

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**Total**

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12  
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