Students will take a minimum of 120 credits (CATS) from the lists below. In addition, they can choose from a list of optional modules as well as from other modules available across the University. The maximum load is 150 CATS.

Students will be required to study the following *core* modules:

| MORSE | | | Maths & Stats | | | Data Science | | |
|---|---|---|---|---|---|---|---|---|
| Mathematics (40 CATS core) | CATS | Term | Mathematics (50 CATS core) | CATS | Term | Mathematics (40 CATS core) | CATS | Term |
| Refresher Mathematics | 0 | 0 | Refresher Mathematics | 0 | 0 | Refresher Mathematics | 0 | 0 |
| Calculus 1 | 10 | 1 | Mathematical Analysis 1 | 10 | 1 | Calculus 1 | 10 | 1 |
| Calculus 2 | 10 | 2 | Mathematical Analysis 2 | 15 | 2 | Calculus 2 | 10 | 2 |
| Vectors & Matrices | 10 | 2 | Linear Algebra | 15 | 2 | Vectors & Matrices | 10 | 2 |
| Sets & Numbers | 10 | 1 | Sets & Numbers | 10 | 1 | Sets & Numbers | 10 | 1 |
| Business School (10 CATS core) | | | | | | Business School (10 CATS core) | | |
| Mathematical Programming I | 10 | 3 | | | | Mathematical Programming I | 10 | 3 |
| Economics (30 CATS core) | | | | | | | | |
| Introduction to Quantitative Economics | 30 | 1-2 | | | | | | |
| | | | | | | Computer Science (30 CATS core) | | |
| | | | | | | Programming for Computer Scientists | 15 | 1 |
| | | | | | | Design of Information Structures | 15 | 2 |
| Statistics (40 CATS core) | | | Statistics (40 CATS core) | | | Statistics 40 CATS core) | | |
| Probability 1 | 15 | 1 | Probability 1 | 15 | 1 | Probability 1 | 15 | 1 |
| Probability 2 | 10 | 2 | Probability 2 | 10 | 2 | Probability 2 | 10 | 2 |
| Introduction to Statistical Modelling | 15 | 2 | Introduction to Statistical Modelling | 15 | 2 | Introduction to Statistical Modelling | 15 | 2 |
| TOTAL CORE CATS: | 120 | | | 90 | | | 120 | |

Students will be able to select from the following *optional* modules (indicative list that may change from year to year):

| MORSE | | | Maths & Stats | | | Data Science | | |
|---|---|---|---|---|---|---|---|---|
| Mathematics | CATS | Term | Mathematics | CATS | Term | | | |
| Programming for Scientists | 10 | 2 | Programming for Scientists | 10 | 2 | | | |
| Mathematical Methods and Modelling 1 | 10 | 1 | Mathematical Methods and Modelling 1 | 10 | 1 | | | |
| Mathematical Methods and Modelling 2 | 10 | 2 | Mathematical Methods and Modelling 2 | 10 | 2 | | | |
| Differential Equations | 10 | 2 | Differential Equations | 10 | 2 | | | |
| | | | Economics | | | | | |
| | | | Introduction to Quantitative Economics | 30 | 1-2 | | | |
| | | | Business School | | | | | |
| | | | Mathematical Programming I | 10 | 1 | | | |
| | | | Computer Science | | | | | |
| | | | Design of Information Structures | 15 | 2 | | | |
| Philosophy | | | Philosophy | | | | | |
| Logic 1: Introduction to Symbolic Logic | 15 | 2 | Logic 1: Introduction to Symbolic Logic | 15 | 2 | | | |

Students will be permitted to study up to 30 credits (CATS) of any modules available across the University, subject to availability and the approval by their Course Director. Choices include French, German, Japanese, Chinese for Beginners, Introduction to Astronomy, and Quantum Phenomena, but other suggestions are possible (see module catalogue https://courses.warwick.ac.uk).