### Second Major: Statistics

**Applicable to cohorts: AY 2017/2018 and after**

<table>
<thead>
<tr>
<th>Levels</th>
<th>Second Major Requirements</th>
<th>Cum MCs</th>
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| Level 1000 (14–16 MCs) | Pass  
- ST1131 Introduction to Statistics  
  or ST1232 Statistics for Life Sciences  
- MA1101R Linear Algebra I  
  or MA1508E Linear Algebra for Engineering  
  or MA1513 Linear Algebra with Differential Equations (2 MCs) ^  
- MA1102R Calculus  
  or MA1505 Mathematics I  
  or MA1507 Advanced Calculus  
  or MA1511 Engineering Calculus (2 MCs) and MA1512 Differential Equations for Engineering (2 MCs)  
- MA1102R Calculus  
  or CS1010/—E/—J/—S/—X Programming Methodology  
  or IT1007 Introduction to Programming with Python and C | 14–16 |
| Level 2000 (16–17 MCs) | Pass  
- ST2131/MA2216 Probability  
- ST2132 Mathematical Statistics  
- ST2137 Computer Aided Data Analysis  
- MA2311 Techniques in Advanced Calculus  
  or MA2104 Multivariable Calculus  
  or MA2108 Mathematical Analysis I  
  or MA2108S Mathematical Analysis I (S) | 30–33 |
| Levels 3000 and 4000 (16–20 MCs) | Pass  
- ST3131 Regression Analysis  
- Three other modules from ST32xx (except ST328x) or ST4xxx modules  
- One additional module from ST32xx (except ST328x) or ST4xxx modules ^ | 48–51 |

^ Applicable only to students who use MA1513 Linear Algebra with Differential Equations (2 MCs) to fulfill the second major requirements.

This second major is **not** offered with a primary major in Statistics or Data Science and Analytics, and a minor in Statistics.

Students reading any one of the following **primary majors** with a second major in Statistics should take note of additional requirements.

**Applied Mathematics** or **Mathematics** — read one additional MA or ST module at level 2000 or above.

**Quantitative Finance** — read two additional MA or ST modules at level 2000 or above.

The additional modules must belong to the elective lists of the primary major or second major and must not overlap with any other modules used to satisfy the respective primary major or second major requirements.

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Click on the module codes for module information