3.4.2.6 Second Major in Statistics

Host Department: Statistics

To be awarded a B.Sc. with a second major in Statistics, candidates must satisfy the following:
<table>
<thead>
<tr>
<th>MODULE LEVEL</th>
<th>SECOND MAJOR REQUIREMENTS</th>
<th>CUMULATIVE MAJOR MCS</th>
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</thead>
</table>
| 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 Differential Equations for Engineering (2 MCs)  
or  
MA1512      Calculus for Computing  | 14 – 16 |
|              | CS1010        Programming Methodology  
or  
CS1010E      Programming Methodology  
or  
CS1010J      Programming Methodology  
or  
CS1010S      Programming Methodology  
or  
CS1010X      Programming Methodology  
or  
IT1007         Introduction to Programming with Python and C | 14 – 16 |
<table>
<thead>
<tr>
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<th>SECOND MAJOR REQUIREMENTS</th>
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</tr>
</thead>
</table>
| 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 |
| Level-3000 & Level-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 fulfil the second major requirements.

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