3.4.2.7 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>
</tr>
</thead>
</table>
| Level-1000 (14 – 16 MCs) | Pass  
ST1131 Introduction to Statistics  
or  
ST1232 Statistics for Life Sciences  
or  
MA1101R Linear Algebra I  
or  
MA1508E Linear Algebra for Engineering  
or  
MA1513 Linear Algebra with Differential Equations (2 MCs)  
or  
MA1102R Calculus  
or  
MA1505 Mathematics I  
or  
MA1507 Advanced Calculus  
or  
MA1511 Engineering Calculus (2 MCs) and  
MA1512 Differential Equations for Engineering (2 MCs)  
or  
MA1521 Calculus for Computing  
or  
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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</tr>
</thead>
<tbody>
<tr>
<td>Level-2000 (16 – 17 MCs)</td>
<td>Pass ST2131/ Probability MA2216 ST2132 Mathematical Statistics ST2137 Computer Aided Data Analysis MA2311 Techniques in Advanced Calculus or MA2104 Multivarible Calculus or MA2108 Mathematical Analysis I or MA2108S Mathematical Analysis I (S)</td>
<td>30 – 33</td>
</tr>
<tr>
<td>Level-3000 &amp; Level-4000 (16 – 20 MCs)</td>
<td>Pass ST3131 Regression Analysis* - Three other modules from ST32xx (except ST328x) or ST4xxx modules - One additional module from ST32xx (except ST328x) or ST4xxx modules ^</td>
<td>48 – 51</td>
</tr>
</tbody>
</table>

* Students who have passed EC3303 Econometrics I need not read ST3131. They are allowed to read and pass an additional module from ST32xx (except ST328x) or ST4xxx modules in lieu of ST3131. However, where a module from ST32xx or ST4xxx modules requires ST3131 as pre-requisite, the pre-requisite may not be fulfilled by EC3303.

^ 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.