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>
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<th>MODULE LEVEL</th>
<th>SECOND MAJOR REQUIREMENTS</th>
<th>CUMULATIVE MAJOR MCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level-2000</td>
<td>Pass&lt;br&gt;ST2131/ MA2216&lt;br&gt;ST2132&lt;br&gt;ST2137&lt;br&gt;MA2311&lt;br&gt;or&lt;br&gt;MA2104&lt;br&gt;or&lt;br&gt;MA2108&lt;br&gt;or&lt;br&gt;MA2108S</td>
<td>30 – 33</td>
</tr>
<tr>
<td>(16 – 17 MCs)</td>
<td>Mathematical Statistics&lt;br&gt;Computer Aided Data Analysis&lt;br&gt;Techniques in Advanced Calculus&lt;br&gt;Multivariable Calculus&lt;br&gt;Mathematical Analysis I&lt;br&gt;Mathematical Analysis I (S)</td>
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<tr>
<td>Level-3000 &amp; Level-4000</td>
<td>Pass&lt;br&gt;ST3131 Regression Analysis*&lt;br&gt;- Three other modules from ST32xx (except ST328x) or ST4xxx modules&lt;br&gt;- One additional module from ST32xx (except ST328x) or ST4xxx modules ^</td>
<td>48 – 51</td>
</tr>
<tr>
<td>(16 – 20 MCs)</td>
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</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.