## Data Science (BMath) Checklist

<table>
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<tr>
<th>Terms</th>
<th>Calendar 2018-19</th>
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<th>Calendar 2017-18</th>
<th>If you liked…</th>
<th>Try…</th>
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<tr>
<td>FWS</td>
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<td>MATH 239&quot;, 249&quot;</td>
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<td>Communications Course&quot;</td>
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<td>Communications Course&quot;</td>
<td>STAT 340</td>
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### Data Science Mandatory Courses

- **FWS** CS 240
- **FWS** CS 241
- **FWS** CS 245
- **FWS** CS 246
- **FWS** CS 251
- **FWS** CS 341
- **FWS** CS 348
- **FWS** CS 350
- **WS** CS 451
- **FWS** STAT 330
- **FWS** STAT 331
- **FWS** STAT 332
- **FWS** STAT 333
- **FWS** F, S (?) STAT 341
- **FWS** ENGL 378

- >=3 STAT 4XX
- >=2 Math 3XX/4XX

### One Of...

- **FWS** CS 431
- **WS** CS 451

### Data Science Mandatory with Options

- **FWS** CS 480
- **FWS** CS 485
- **FWS** ? CS 485
- **FWS** STAT 230
- **FWS** MATH 239

### Two Of...

- **FWS** CS 480
- **FWS** CS 485
- **FWS** ? CS 485
- **FWS** STAT 230

### Thus minimums of...

- >=10 non math courses
- >=26 math courses
- >=40 courses

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1. Please see ugradcalendar.uwaterloo.ca for a list of courses.
2. STAT 331 can be replaced by STAT 371.
3. STAT 332 can be replaced by STAT 372.
4. MTHEL 300
5. One of these can be selected from: CS 457, 486, 485
6. These can come from the "Mandatory with Options" section
7. For core, in most plans, you need one of MATH 237, 239. In DS you need both.
8. A MATH course is any course offered in the Faculty (i.e. CS, STAT, ACTSC, …) except COMM or MTHEL
9. STAT 334 is not an acceptable course for any STAT plan; please take 330, 333.

Please see ugradcalendar.uwaterloo.ca for a complete list of rules.