**Degree Planning and Checklist WORKSHEET**

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Specialization (YEARS 2-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a. Principal</td>
<td>6a. SP</td>
</tr>
<tr>
<td>1b. Principal</td>
<td>6b. SP</td>
</tr>
<tr>
<td>2a. elective</td>
<td>7a. SP</td>
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<tr>
<td>2b. elective</td>
<td>7b. SP</td>
</tr>
<tr>
<td>3a. elective</td>
<td>8a. elective</td>
</tr>
<tr>
<td>3b. elective</td>
<td>8b. elective</td>
</tr>
<tr>
<td>4a. elective</td>
<td>9a. elective</td>
</tr>
<tr>
<td>4b. elective</td>
<td>9b. elective</td>
</tr>
<tr>
<td>5a. Cat A or B</td>
<td>10a. elective</td>
</tr>
<tr>
<td>5b. Cat A or B</td>
<td>10b. elective</td>
</tr>
</tbody>
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**Module and Graduation Planning**

**First Year**
5.0 courses numbered 1000-1999, including 1.0 from Category A or B
No principal courses less than 60%

**Module Courses**
9.0 courses (or more depending on module) specified by Department.
60% cumulative average in specialization module.

**Essay**
2.0 E, F, G courses including 1.0 from 2000 level or above (essay courses must be done at Western)

**Breadth**
1.0 Category A (Social Science, Interdisciplinary and Multidisciplinary, Various)
1.0 Category B (Arts & Humanities and Languages)
1.0 Category C (Science)

**Courses**
No more than 7.0 Year 1 courses, 13.0 minimum senior level

**BSc degree**
4 year: 11.0 Science/BMSc courses (14.0 maximum in one subject area)*

**Averages**
60% cumulative average in any additional Module taken
60% cumulative average on 20.0 courses successfully completed

*Subject Areas: Actuarial Science; Astronomy; Biology; Chemistry; Computer Science; Earth Sciences; Environmental Sciences; Physics; Statistical Sciences - are all separate subject areas. Courses in Applied Mathematics, Calculus and Mathematics belong to the same subject area – the subject area of mathematics.*
**Specialization In Mathematics**

### 9.0 Module Courses

#### Year 1: 5.0 Courses (1.0 Principal Courses)
- **0.5 course** from: Calculus 1000A/B, 1500A/B
- **0.5 course** from: Calculus 1501A/B is recommended) or (Calculus 1301A/B with a mark of at least 85%).
- **4.0 elective courses** (Must do 1.0 of Category A or B requirement)

**Points to Consider:**
- Calculus, with no mark less than 60%, is the principal course.
- Math 1600A/B and Math 1120A/B are recommended.
- Mathematics 1600A/B a minimum mark of 60% must be completed prior to Mathematics 2120A/B. Mathematics 1600A/B must be completed prior to Mathematics 2211A/B.

#### Year 2: 5.0 Courses
- **0.5 course** from: Calculus 2502A/B (recommended) or Calculus 2302A/B
- **0.5 course** from: Calculus 2503A/B (recommended) or Calculus 2303A/B
- **0.5 course** from: Math 2120A/B or 2211A/B
- **0.5 course** from: Math 2122A/B
- **3.0 elective courses**

**Points to Consider:**
- It is strongly recommended that Math 2122A/B be completed in the year of entry into the module.

#### Year 3: 5.0 Courses
- **0.5 course** from Math 3020A/B
- **2.0 additional courses** in Mathematics, Actuarial Sciences, Applied Mathematics, Financial Modelling, or Statistical Sciences at the 2100 level or above
- **1.5 from 2.5 additional courses** in Mathematics at the 2000 level or above
- **1.0 elective courses**

#### Year 4: 5.0 Courses
- **1.0 of the 2.5 additional courses** (not already taken) in Mathematics at the 2000 level or above
- **2.0 additional courses** in Mathematics at the 3000 level or above
- **2.0 elective courses**

**Points to Consider:**
- See back page for important information.

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**Notes:**
- You may have taken a former course that isn’t listed, because it isn’t offered anymore, but still meets the requirements of the degree – refer to the online academic calendar for the complete list of substitutions.
- Students should plan this module taking into account prerequisites of senior courses.
- The order of courses listed here is a recommendation only. It is possible to complete this module in a different order than what is listed here.

**Common Course Policy:**
To be considered if you are completing two modules with common courses. You are allowed to double count 1.0 credits toward both modules. Any remaining common courses are distributed between the two modules as evenly as possible and substituted with alternate courses. Please note, when choice exists in a module, courses are not considered common unless and until all choice is exhausted. For more information, see the Academic Counselling website or speak with an Academic Counsellor.