<table>
<thead>
<tr>
<th>Course</th>
<th>Year/ Term</th>
<th>Topic</th>
<th>Pre-reqs</th>
<th>Offering</th>
<th>SOA exams</th>
<th>CAS exams</th>
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<tr>
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<td>CS Core I</td>
<td>MATH 135/145</td>
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<td>FWS</td>
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<td>Loss models 1</td>
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<td>32</td>
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<td>Numerical Computation for Financial Modeling</td>
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<td>SOA exams</td>
<td>CAS exams</td>
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<td>Advanced corporate finance</td>
<td>ACTSC 471/AFM 476</td>
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<td>CAS exams</td>
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<td>34</td>
<td>3/4</td>
<td>Investments</td>
<td>AFM 424</td>
<td>FWS</td>
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<td>FWS</td>
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<td>38</td>
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<td>Advanced Life Insurance Practice</td>
<td>ACTSC 455</td>
<td>FWS</td>
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<td>39</td>
<td>4</td>
<td>Intro to Property &amp; Casualty Pricing</td>
<td>ACTSC 462</td>
<td>FWS</td>
<td>SOA exams</td>
<td>CAS exams</td>
<td>≥60% in M136, Coreq M138</td>
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</tbody>
</table>

+ 2 Additional 400 level ACTSC courses; currently available courses include:
- ACTSC 432 - Loss models 2
- ACTSC 433 - Survival analysis
- ACTSC 453 - Pensions
- ACTSC 455 - Advanced Life Insurance Practice
- ACTSC 462 - Intro to Property & Casualty Pricing

+ 5 Additional courses of which at least 3 must be outside the math faculty (2 if AFM 424 is taken)

Students who want a double major with Statistics must have STAT 332 and a total of 3 STAT 4XX courses

Total 40 courses

*AFM 424 and ACTSC 471/AFM 476 cannot be double counted on the 2 Additional list and as a specific requirement (#33). If you want them to count under the 1 Additional list, you MUST complete both.

SOA and CAS exam mappings are intended to be a guideline for students.

The entire CAS MAS-II syllabus cannot be directly mapped to the program's courses. In addition to the courses indicated above, students preparing for this exam may also consider taking STAT 430, STAT 441, STAT 442, STAT 450 and STAT 440.

For CIA Accreditation information: https://uwaterloo.ca/statistics-and-actuarial-science/current-undergraduate-students/canadian-institute-actuaries-cia-accreditation

Occasionally mistakes are found on these sheets. Make sure you have the most up to date version, and know that a mistake on this sheet, will not allow you to graduate missing a required course. The undergraduate calendar is the official list of required courses for any program and these sheets are created to help things be easier for you.