### ACTUARIAL MATHEMATICS AND MATHEMATICS OF FINANCE & RISK MANAGEMENT (ACTU MATH / AMMFRM) Sub-Plan Requirements

- **Campus:** UMICH  
- **Career:** ULSA  
- **Program:** “blank”  
- **Plan:** 5080ABLSA / 5080BSLSA / 5080BSCLSA  
- **Sub-Plan:** ACTU MATH  

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**RG 3313(BA) / 3411(BS) / 5987(BSC)**

**ACTUARIAL MATHEMATICS AND MATHEMATICS OF FINANCE & RISK MANAGEMENT (ACTU MATH) (or AMMFRM) PREREQUISITES**

**Effective Date** FA05/1560 09/06/2005

<table>
<thead>
<tr>
<th>RQ 3431</th>
<th>Prerequisites for AMMFRM</th>
</tr>
</thead>
<tbody>
<tr>
<td>LN 0010</td>
<td>MATH 215-217</td>
</tr>
<tr>
<td>LN 0020</td>
<td>MATH 255-217</td>
</tr>
<tr>
<td>LN 0030</td>
<td>MATH 285-217</td>
</tr>
<tr>
<td>LN 0040</td>
<td>MATH 395-396</td>
</tr>
<tr>
<td>LN 0060</td>
<td>Introductory course in Economics</td>
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<tr>
<td>LN 0070</td>
<td>EECS 183 or the equivalent, to acquire a working knowledge of a high-level computer language (e.g. Fortran, C or C++)</td>
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**Effective Date** FA05/1560 09/06/2005

| LN 0010 | MATH 215-217             |
| LN 0020 | MATH 255-217             |
| LN 0030 | MATH 285-217             |
| LN 0040 | MATH 395-396             |
| LN 0050 | ACC 471                  |
| LN 0060 | Introductory course in Economics |
| LN 0070 | EECS 183 or the equivalent, to acquire a working knowledge of a high-level computer language (e.g. Fortran, C or C++) |

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**Effective Date** FA01/1360 09/05/2001

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<td>EECS 183 or the equivalent, to acquire a working knowledge of a high-level computer language (e.g. Fortran, C or C++)</td>
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**RG 3314(BA) / 3412(BS) / 5988(BSC)**

**ACTU MATH (or AMMFRM) REQUIREMENTS**

**Effective Date** FA05/1560 09/06/2005

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<tr>
<th>RQ 3433</th>
<th>Basic Course Requirements for AMMFRM</th>
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<tr>
<td>LN 0010</td>
<td>Differential Equations: MATH 256, 286, or 316</td>
</tr>
<tr>
<td>LN 0020</td>
<td>Differential Equations: repeated courses</td>
</tr>
<tr>
<td>LN 0030</td>
<td>Probability: MATH 425</td>
</tr>
<tr>
<td>LN 0040</td>
<td>Probability: repeated courses</td>
</tr>
<tr>
<td>LN 0070</td>
<td>Statistics: STATS 426</td>
</tr>
<tr>
<td>LN 0080</td>
<td>Statistics: repeated courses</td>
</tr>
<tr>
<td>LN 0090</td>
<td>Risk Analysis: MATH 423</td>
</tr>
<tr>
<td>LN 0100</td>
<td>Risk Analysis: repeated courses</td>
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</table>
ACTUARIAL MATHEMATICS AND MATHEMATICS OF FINANCE & RISK MANAGEMENT
(ACTU MATH / AMMFRM) Sub-Plan Requirements

Effective Date WN07/1620 01/04/2007
LN 0010  Differential Equations: MATH 216, 256, 286, or 316
LN 0020  Differential Equations: repeated courses
LN 0030  Probability: MATH 425
LN 0040  Probability: repeated courses
LN 0070  Statistics: STATS 426
LN 0080  Statistics: repeated courses
LN 0090  Risk Analysis: MATH 423
LN 0100  Risk Analysis: repeated courses

Effective Date FA05/1560 09/06/2005
LN 0010  Differential Equations: MATH 216, 256, 286, or 316
LN 0020  Differential Equations: repeated courses
LN 0030  Probability: MATH 425 or 525
LN 0040  Probability: repeated courses
LN 0050  Analysis: MATH 351, 354, 451, or 524
LN 0060  Analysis: repeated courses
LN 0070  Statistics: STATS 426
LN 0080  Statistics: repeated courses
LN 0090  Risk Theory: MATH 523
LN 0100  Risk Theory: repeated courses

RQ 3434  Four Courses in Actuarial Mathematics
Effective Date WN07/1620 01/04/2007
LN 0010  MATH 424, 520, 523
LN 0020  MATH 521 or 522

Three Special Courses in Actuarial Mathematics
Effective Date FA05/1560 09/06/2005
LN 0010  MATH 424 and 520
LN 0020  MATH 521 or 522

RQ 3435  Four Courses in Financial Mathematics
Effective Date WN07/1620 01/04/2007
LN 0010  MATH 525, 526, and ECON 435
LN 0020  MATH 472 or 471

Three Special Courses in Financial Mathematics
Effective Date FA05/1560 09/06/2005
LN 0010  MATH 423
LN 0020  ECON 435
LN 0030  MATH 472 or 471

RQ 3441  AMMFRM Electives
Effective Date FA05/1560 09/06/2005
LN 0010  Two additional courses in areas relating to actuarial or financial mathematics.

Effective Date FA04/1510 09/07/2004

RQ 3433  Basic Course Requirements for ACTU MATH
Effective Date FA04/1510 09/07/2004
LN 0010  Differential Equations: MATH 216, 256, 286, or 316
LN 0020  Differential Equations: repeated courses
LN 0030  Probability: MATH 425 or 525
LN 0040  Probability: repeated courses
LN 0050  Analysis: MATH 351, 354, 451, or 524
ACTUARIAL MATHEMATICS AND MATHEMATICS OF FINANCE & RISK MANAGEMENT
(ACTU MATH / AMMFRM) Sub-Plan Requirements

LN 0060 Analysis: repeated courses
LN 0070 Statistics: STATS 426
LN 0080 Statistics: repeated courses
LN 0090 Risk Theory: MATH 523
LN 0100 Risk Theory: repeated courses

RQ 3434 Three Special Courses in Actuarial Mathematics
Effective Date FA01/1360 09/05/2001
LN 0010 MATH 424 and 520
LN 0020 MATH 521 or 522

RQ 3435 Three Special Courses in Financial Mathematics
Effective Date FA01/1360 09/05/2001
LN 0010 MATH 423
LN 0020 ECON 435
LN 0030 MATH 472 or 471

RQ 3441 ACTU MATH Electives
Effective Date FA01/1360 09/05/2001
LN 0010 Two additional courses in areas relating to actuarial or financial
mathematics.

Effective Date FA01/1360 09/05/2001

RQ 3433 Basic Course Requirements for ACTU MATH
Effective Date FA01/1360 09/05/2001
LN 0010 Differential Equations: MATH 216, 256, 286, or 316
LN 0020 Probability: MATH 425 or 525
LN 0030 Analysis: MATH 351, 354, 451, or 524
LN 0040 Statistics: STATS 426
LN 0050 Risk Theory: MATH 523

RQ 3434 Three Special Courses in Actuarial Mathematics
Effective Date FA01/1360 09/05/2001
LN 0010 MATH 424 and 520
LN 0020 MATH 521 or 522

RQ 3435 Three Special Courses in Financial Mathematics
Effective Date FA01/1360 09/05/2001
LN 0010 MATH 423
LN 0020 ECON 435
LN 0030 MATH 472 or 471

RQ 3441 ACTU MATH Electives
Effective Date FA01/1360 09/05/2001
LN 0010 Two additional courses in areas relating to actuarial or financial
mathematics.

RG 3321(BA) / 3413(BS) / 5989(BSC) ACTU MATH (or AMMFRM) TOTALS AND GPA REQUIREMENT
Effective Date FA05/1560 09/06/2005

RQ 3436 Totals and GPA Requirements for AMMFRM
Effective Date WN07/1620 01/04/2007
LN 0010 Minimum 30 units in the concentration
LN 0020 Minimum 2.0 GPA in the concentration
Effective Date FA05/1560 09/06/2005
LN 0010 Minimum 27 units in the concentration
LN 0020 Minimum 2.0 GPA in the concentration

Effective Date FA01/1360 09/05/2001

RQ 3436 Totals and GPA Requirements for ACTU MATH

Effective Date FA01/1360 09/05/2001
LN 0010 Minimum 27 units in the concentration
LN 0020 Minimum 2.0 GPA in the concentration

RQ 3439 Area Distribution Requirement: Only the exact amount of required units is used in Distribution. Additional units of course work will be split off and used elsewhere in the audit.

Effective Date FA05/1560 09/06/2005
LN 0010 7 units from Humanities.
LN 0020 7 units from Natural Sciences.
LN 0030 7 units from Social Sciences.

Effective Date FA05/1560 09/06/2005
LN 0010 7 units from Humanities.
LN 0020 7 units from Natural Sciences.
LN 0030 7 units from Social Sciences.

RQ 3440 Additional Area Distribution Requirement, 3 units in each of 3 of the following 5 areas: Humanities, Natural Science, Social Science, Mathematical & Symbolic Analysis and Creative Expression. Up to 9 units may be Interdisciplinary.

Effective Date FA05/1560 09/06/2005
LN 0010 3 additional units from Humanities.
LN 0020 3 additional units from Natural Sciences.
LN 0030 3 additional units from Social Sciences.
LN 0040 3 units from Mathematical and Symbolic Analysis.
LN 0050 3 units from Creative Expression.
LN 0060 3 units from Interdisciplinary
LN 0070 3 additional units of Interdisciplinary.
LN 0080 3 additional units of Interdisciplinary

Effective Date FA05/1560 09/06/2005
LN 0010 3 additional units from Humanities.
LN 0020 3 additional units from Natural Sciences.
LN 0030 3 additional units from Social Sciences.
LN 0040 3 units from Mathematical and Symbolic Analysis.
LN 0050 3 units from Creative Expression.

Effective Date FA01/1360 09/05/2001

RG 3330(BA) / 3414(BS) / 5990 (BSC) AREA DISTRIBUTION-ACTU MATH (or AMMFRM): FOR MULTIPLE CONCENTRATORS, IF AN AREA DISTRIBUTION HAS BEEN FULFILLED FOR ONE CONCENTRATION, DISREGARD THE ANALYSIS FOR ANY OTHERS. CONTACT LSA ACADEMIC ADVISING WITH QUESTIONS.
RQ 3439  Area Distribution Requirement: Only the exact amount of required units is used in Distribution. Additional units of course work will be split off and used elsewhere in the audit.

Effective Date FA05/1560 09/06/2005
- LN 0010  7 units from Humanities.
- LN 0020  7 units from Natural Sciences.
- LN 0030  7 units from Social Sciences.

Effective Date FA97/1060 09/03/1997
- LN 0010  7 units from Humanities.
- LN 0020  7 units from Natural Sciences.
- LN 0030  7 units from Social Sciences.

RQ 3440  Additional Area Distribution Requirement, 3 units in each of 3 of the following 5 areas: Humanities, Natural Science, Social Science, Mathematical & Symbolic Analysis and Creative Expression. Up to 9 units may be Interdisciplinary.

Effective Date 09/03/2002
- LN 0010  3 additional units from Humanities.
- LN 0020  3 additional units from Natural Sciences.
- LN 0030  3 additional units from Social Sciences.
- LN 0040  3 units from Mathematical and Symbolic Analysis.
- LN 0050  3 units from Creative Expression.
- LN 0060  3 units from Interdisciplinary
- LN 0070  3 additional units of Interdisciplinary.
- LN 0080  3 additional units of Interdisciplinary.

Effective Date 09/03/1997
- LN 0010  3 additional units from Humanities.
- LN 0020  3 additional units from Natural Sciences.
- LN 0030  3 additional units from Social Sciences.
- LN 0040  3 units from Mathematical and Symbolic Analysis.
- LN 0050  3 units from Creative Expression.