

MATHEMATICAL SCIENCES Sub-Plan Requirements

Campus: UMICH
Career: ULSA
Program: "blank"
Plan: 5080ABLSA / 5080BSLSA / 5080BSCLSA
Sub-Plan: MATHSCI

RG = Requirement Group
RQ = Requirement
LN = Line

RG 3332(BA) / 3403(BS) / 5991(BSC) MATHEMATICAL SCIENCES PREREQUISITES

Effective Date FA01/1360 09/05/2001

RQ 3442 Prerequisites for Mathematical Sciences

Effective Date FA01/1360 09/05/2001

LN 0010 MATH 215-217.
LN 0020 MATH 285-217.
LN 0030 MATH 395-396.
LN 0040 EECS 183 or equivalent.

RG 3333(BA) / 3404(BS) / 5992(BSC) MATHEMATICAL SCIENCES REQUIREMENTS

Effective Date FA04/1510 09/07/2004

RQ 3443 1 basic course from each of the following groups

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 DISCRETE MATH / MODERN ALGEBRA - MATH 312, 412, or 512.
LN 0040 DISCRETE MATH / MODERN ALGEBRA - Repeated Courses.
LN 0050 ANALYSIS - MATH 351, 354, 450, 451, or 454.
LN 0060 ANALYSIS - Repeated Courses.
LN 0070 PROBABILITY - MATH 425 or 525.
LN 0080 PROBABILITY - Repeated Courses.

RQ 3444 Elect 3 courses in 1 of these options: Discrete & Algorithmic Methods, Numerical & Applied Analysis, Operations Research & Modeling, Probabilistic Methods, Mathematics Economics, Control Systems, Mathematical Physics, Mathematical Biology

Effective Date FA01/1360 09/05/2001

LN 0010 DISCRETE MATH & ALGORITHMIC METHODS.
LN 0020 NUMERICAL & APPLIED ANALYSIS.
LN 0030 OPERATIONS RESEARCH & MODELING.
LN 0040 PROBABILISTIC METHODS.
LN 0050 MATHEMATICAL ECONOMICS.
LN 0060 CONTROL SYSTEMS.
LN 0070 MATHEMATICAL PHYSICS.
LN 0080 MATHEMATICAL BIOLOGY.

RQ 3445 Elect 2 additional advanced courses in Mathematics or a related Area

Effective Date FA01/1360 09/05/2001

LN 0010 Courses elected outside the Math department must be numbered 300 or above and must have mathematical significance at the level of at least MATH 215. Courses elected within the Math department must be numbered 400 or above.

Effective Date FA01/1360 09/05/2001

RQ 3443 1 basic course from each of the following groups

Effective Date 09/05/2001

LN 0010 DIFFERENTIAL EQUATIONS - MATH 216, 256, 286, or 316.
LN 0020 DISCRETE MATH / MODERN ALGEBRA - MATH 312, 412, or 512.
LN 0030 ANALYSIS - MATH 351, 354, 450, 451, or 454.

MATHEMATICAL SCIENCES Sub-Plan Requirements

LN 0040 PROBABILITY - MATH 425 or 525.

RQ 3444 Elect 3 courses in 1 of these options: **Discrete & Algorithmic Methods, Numerical & Applied Analysis, Operations Research & Modeling, Probabilistic Methods, Mathematics Economics, Control Systems, Mathematical Physics, Mathematical Biology**

Effective Date FA01/1360 09/05/2001

LN 0010 DISCRETE MATH & ALGORITHMIC METHODS.
LN 0020 NUMERICAL & APPLIED ANALYSIS.
LN 0030 OPERATIONS RESEARCH & MODELING.
LN 0040 PROBABILISTIC METHODS.
LN 0050 MATHEMATICAL ECONOMICS.
LN 0060 CONTROL SYSTEMS.
LN 0070 MATHEMATICAL PHYSICS.
LN 0080 MATHEMATICAL BIOLOGY.

RQ 3445 Elect 2 additional advanced courses in **Mathematics or a related Area**

Effective Date FA01/1360 09/05/2001

LN 0010 Courses elected outside the Math department must be numbered 300 or above and must have mathematical significance at the level of at least MATH 215. Courses elected within the Math department must be numbered 400 or above.

RG 3339(BA) / 3405(BS) / 5993(BSC) MATHEMATICAL SCIENCES TOTALS AND GPA REQUIREMENT

Effective Date FA01/1360 09/05/2001

RQ 3446 **Totals and GPA Requirement for Honors Mathematics**

Effective Date FA01/1360 09/05/2001

LN 0010 Minimum 27 units (9 courses) required for Mathematical Sciences.
LN 0020 Minimum 2.0GPA required in Mathematical Sciences.

MATHEMATICAL SCIENCES Sub-Plan Requirements

RG 3338(BA) / 3406(BS) / 5994(BSC) AREA DISTRIBUTION REQUIREMENT - FOR MATHEMATICAL SCIENCES CONCENTRATORS

Effective Date FA01/1360 09/05/2001

RQ 3447 **Area Distribution Requirement, select 7 units from Humanities, 7 units from Natural Sciences and 7 units from Social Sciences. These units must be taken outside the area of concentration**

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 3448 **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 FA02/1410 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 FA97/1060 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.