

MATHEMATICS: Pure/Applied/Secondary Option – B.A. (120 cr)

Keene State College

2007-2008 Catalog

INTEGRATIVE STUDIES PROGRAM REQUIREMENTS (44 cr)

Note: Students must complete the **Thinking & Writing** requirement within their first two semesters and the **Quantitative Literacy** requirement within their first three semesters.

Foundations

ITW: Thinking & Writing _____

IQL: Quantitative Literacy _____

Perspectives

NOTE: Students may take only **one** course in any specific discipline within the **PERSPECTIVES** area. Disciplines are shown in **BOLD**, such as IAART.

IA: Arts – **IAART, IAMU, IATAD**

1 course: _____

IH: Humanities - **IHCOMM, IHENG, IHFILM, IHFR, IHGER, IHHIST, IHJRN, IHML, IHPHIL, IHSP**

2 courses: _____ _____

IA/IH: 1 additional course in either IA or IH

1 course: _____

IN: Natural Sciences – **INASTR, INBIO, INCHEM, INGEOL, INMET, INPHYS**

2 courses: _____ _____

IS: Social Sciences – **ISANTH, ISCJS, ISECON, ISGEOG, ISPOSC, ISPSYC, ISSOC, ISSOSC**

2 courses: _____ _____

Interdisciplinary

II: Any course beginning with II

1 course: _____

NOTE: Courses fulfilling **PERSPECTIVES** and **INTERDISCIPLINARY** requirements may be at the 100-400 level. All students must complete a minimum of 24 credits at the 100-200 level and a minimum of 8 credits at the 300-400 level to complete the **Integrative Studies Program (ISP)**.

MAJOR REQUIREMENTS (48 cr)

Core:

CS 140 Computer Programming I MATH 231 Linear Algebra & Differential Equations

INPHYS 241 University Physics I* MATH 241 Probability and Statistics

MATH 151 Calculus I** MATH 300 Algebra and Analysis

MATH 152 Calculus II MATH 400 Mathematics Capstone***

MATH 225 Introduction to Abstract & Discrete Mathematics

***NOTE:** Course may be used to satisfy an Integrative Studies requirement; credits only count once.

****NOTE:** MATH 151 will meet the IQL requirement.

*****NOTE:** Students seeking Secondary Math teacher certification must take MATH 475 to fulfill this requirement (also see Secondary Certification PPS).

Select ONE course from the pure area:

MATH 320 Geometry* MATH 337 Number Theory MATH 490 Topics in Pure Math

***NOTE:** Students seeking Secondary Math teacher certification must take MATH 320 to meet this requirement.

Select ONE course from the applied area:

MATH 242 Applied Statistics MATH 360 Num. Methods MATH 495 Topics in App. Math

MATH 251 Vector Calculus MATH 361 Differential Eq.

MATH 341 Prob. & Stats II MATH 365 Math. Modeling

ONE additional MATH course at the 300/400 level (excluding MATH 371, MATH 375, MATH 471, MATH 475)
