

**KEENE STATE COLLEGE
BACHELOR OF ARTS
MATHEMATICS
APPLIED MATH OPTION**

It is the student's responsibility to follow the **official** requirements of their degree, which are found in the Keene State College catalog. This planning sheet is for advising purposes.

Name: _____ Student I.D.#: _____

Institution(s) Attended: _____ Credits: _____

_____ Update: _____ =

GENERAL EDUCATION 42 credits minimum

A. **English Language Competence:** ENG 101 is required of all students.

ENG 101: _____

B. **Arts & Humanities:** A minimum of five courses totaling at least 15 credits as follows:

One course in Literature _____
 One course in literature, which may be any 200 or 300-level English course except 202, 203, 204, 208, 301, 302, 303, 304, 308, 312. French 303 and Spanish 303 may also be used to fulfill this requirement.

HIST _____ ART, FILM, MU or TAD _____

Two additional courses from Arts & Humanities disciplines: AMST, ART, COMM, FILM, ENG, FR, GER, HIST, JRN, ML, MU, PHIL, SP, TAD or an approved interdisciplinary course (WS 201* or an IDAH course).

C. **Social Sciences:** A minimum of four courses totaling at least 12 credits in three or more of the Social Science disciplines: ECON, GEOG, POSC, PSYC, SOC or an approved interdisciplinary course (WS 201* or an IDSS course).

D. **Sciences/Math:** One course in BIOLOGY. PHYS 241 and CS 140 are required for the major. One additional course from Sciences/Math disciplines: ASTR, BIO, CHEM, CS, ENST, GEOL, MATH, MET, PHYS or an approved interdisciplinary course (IDSM).

BIO _____ PHYS 241: UNIVERSITY PHYSICS I _____

CS 140: COMPUTER PROG. I _____

* WS 201 may be used only once, to fulfill either an Arts & Humanities or Social Science General Education requirement.

II. MAJOR REQUIREMENTS: 42 credits

MATHEMATICS CORE 17 credits

*MATH 141: Intro Statistics ___ 3
MATH 151: Calculus I ___ 4
MATH 152: Calculus II ___ 4

MATH 225: Intro to Abstract Math ___ 3
MATH 231: Linear Algebra ___ 3

* This requirement may be fulfilled by completing PSYC 251.

Applied Math Option

MATH 251: Multivariate Calculus ___ 4
MATH 265: Mathematical Modeling ___ 3
MATH 331: Modern Algebra ___ 3

MATH 341: Mathematical Probability ___ 3
MATH 361: Differential Equations ___ 3

Select one of the following:

MATH 242: Applied Statistics ___ 3
MATH 260: Numerical Methods ___ 3

Select two of the following:

MATH 342: Mathematical Statistics ___ 3
MATH 453: Complex Variables ___ 3
MATH 468: Intro to Applied Math ___ 3

III. **ELECTIVES:** Select courses to reach a total of 120 credits for the degree.

If you wish to use transferred courses toward major/minor requirements you must use the course substitution process. Contact the Academic and Career Advising Center for more information.