

**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 _____
Any English course other than Eng 101, 202, 203, 204, 208, 301, 302, 303, 304, 308, 312.
FR, GER or SP 498 (when topics focus on French, German or Spanish literature).

HIST _____ ART, COMM, 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.
E. One additional course from Sciences/Math disciplines: ASTR, BIO, CHEM, CS, ENST, GEOL, MATH
F. 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.

6/04/01