

**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, 205, 301, 302, 303, 310, 311, 382.

FR 340 or 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 (designated IDAH).

**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, PSYCH, SOC or an approved interdisciplinary course (designated IDSS).

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

BIO \_\_\_\_\_ PHYS 241: UNIVERSITY PHYSICS I \_\_\_\_\_

CS 140: COMPUTER PROG. I \_\_\_\_\_

**II. MAJOR REQUIREMENTS:** 41 or 42 credits

**MATHEMATICS CORE** 27 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. 1.2/00