

**KEENE STATE COLLEGE
BACHELOR OF ARTS
MATHEMATICS
SECONDARY CERTIFICATION 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: _____ =

I. GENERAL EDUCATION

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 are appropriate when topics focus on French, German or Spanish literature.

U.S.HIST _____ ART, COMM, FILM, MU or TAD _____

Two courses from Arts & Humanities disciplines: AMST, ART, COMM, ENG, FILM, 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, IDSS, POSC, PSYC, SOC or an approved interdisciplinary course (designated IDSS).

GEOG _____

D. **Sciences/Math** : A minimum of four courses totaling at least 12 credits as follows: One course in BIOLOGY. PHYS 241 and CS 140 are required for the major and may be used to fulfill General Education 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 PROGRAMMING I _____

II. MAJOR REQUIREMENTS 42 credits

MATH CORE 17 credits

*MATH 141: Intro to Statistics ___ _3_
MATH 151: Calculus I ___ _4_
MATH 152: Calculus II ___ _4_

MATH 225: Intro to Abstract Math ___ _3_
MATH 231: Linear Algebra ___ _3_

*May be fulfilled by completing PSYC 251.

SECONDARY CERTIFICATION OPTION 25 credits

MATH 251: Multivariate Calculus ___ _4_
MATH 265: Mathematical Modeling ___ _3_
MATH 310: History of Mathematics ___ _3_
MATH 320: Geometry ___ _3_
MATH 331: Modern Algebra ___ _3_
MATH 341: Mathematical Probability ___ _3_
MATH 351: Intermediate Analysis ___ _3_
MATH 475: Issues, Trends in Math Ed. ___ _3_

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

IV. FOR TEACHER CERTIFICATION:

In order to meet state standards, courses selected within the General Education requirements should include a U.S. history course and a geography course.

Orientation

ESEC 100: Introduction to Teaching ___ _1_

Learners

**ESEC 150: Development, Exceptionality
and Learning I ___ _3_

ESEC 250: Development, Exceptionality
and Learning II ___ _3_

Fundamentals

**ESEC 282: Literacy in Cont. Areas ___ _3_

Settings

Methodology

ESEC 385: Methods: Secondary ___ _3_

ESEC 386: Methods: Field Experience ___ _3_

ESEC 450: Seminar: Educational Principles ___ _3_

Practice

ESEC 460: Student Teaching ___ 12

The following course is highly recommended

Pedagogy

ESEC 387: Creating Social Contexts for

** Courses designated with asterisks require a minimum of one to three hours of field work in the schools or service learning.
1.2/00

