

**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 _____

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.

U.S.HIST _____ ART, 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 (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).

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. 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 PROGRAMMING 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

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

• ESEC 320: Educational. Environments/
Practices ___ 3

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
Learning ___ 3

• Admission to Teacher Education required for these courses.

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