

KEENE STATE COLLEGE
BACHELOR OF ARTS
MATHEMATICS
MIDDLE/JUNIOR HIGH 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: _____ =

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

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

Two additional courses from Arts & Humanities disciplines: AMST, ART, COMM, FILM, ENG, FR, GER, HIST, IDAH, 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, PSYCH, 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 Gen. 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 PROGRAMMING I _____

II. **MAJOR REQUIREMENTS** 41 credits

MATH CORE 17 credits

*MATH 141: Intro to Statistics	___	<u>3</u>	MATH 225: Intro to Abstract Math	___	<u>3</u>
MATH 151: Calculus I	___	<u>4</u>	MATH 231: Linear Algebra	___	<u>3</u>
MATH 152: Calculus II	___	<u>4</u>			

*May be fulfilled by taking PSYC 251

MIDDLE JUNIOR/HIGH SCHOOL MATH EDUCATION OPTION: 24 credits

MATH 235: Discrete Mathematics	___	<u>3</u>
MATH 275: Geometry for K-9 Teachers	___	<u>3</u>
MATH 310: History of Math	___	<u>3</u>
MATH 371: Math Concepts Middle School	___	<u>3</u>
MATH 475: Issues & Trends in Math Ed	___	<u>3</u>

At Least One Of:

MATH 320: Geometry	___	<u>3</u>
MATH 331: Modern Algebra	___	<u>3</u>
MATH 337: Number Theory	___	<u>3</u>

Two Math Electives (minimum 6 credits) at the 200/300 level plus appropriate certification courses.

MATH	:	_____	___	<u>3</u>
MATH	:	_____	___	<u>3</u>

III. **ELECTIVES:**

Pick additional electives to bring your total credits up to 126 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.

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 Content Areas ___ 3

Settings

ESEC 320: Ed. Environ. and Practices ___ 3

Methodology

ESEC 384: Methods: Middle School ___ 3

ESEC 386: Methods: Field Experience ___ 3

ESEC 450: Sem.: Educational Principles ___ 3

Practice

ESEC 460: Student Teaching ___ 12

The following course is highly recommended

Pedagogy

ESEC 387: Creating Social Contexts for Learning ___ 3

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

1.2/00