

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 \_\_\_\_\_
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 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).

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** 41 credits

**MATH CORE** 17 credits

*MATH 141: Intro to Statistics	___ 3_	MATH 225: Intro to Abstract Mathematics	___ 3_
MATH 151: Calculus I	___ 4_	MATH 231: Linear Algebra	___ 3_
MATH 152: Calculus II	___ 4_		

\*May be fulfilled by taking PSYC 251

**MIDDLE JUNIOR/HIGH SCHOOL MATH EDUCATION OPTION:** 24 credits

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

**At least one of the following:**

MATH 320: Geometry	___ 3_
MATH 331: Modern Algebra	___ 3_
MATH 337: Number Theory	___ 3_

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

MATH	: _____	___ 3_
MATH	: _____	___ 3_

**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

**Pedagogy**

• ESEC 387: Creating Social Contexts for Learning \_\_\_ 3\_

• Admission to Teacher Education required for these courses.

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