

**KEENE STATE COLLEGE  
BACHELOR OF SCIENCE  
EDUCATION  
MIDDLE/JUNIOR HIGH MATH 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 43 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, 410. 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).

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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. One course in a PHYSICAL SCIENCE (PHYS 241 is required for the major and maybe used to fulfill Gen. Ed requirements.) CS 140 is 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 \_\_\_\_\_ \_4\_

CS 140: COMPUTER PROGRAMMING I \_\_\_\_\_ \_3\_ \_\_\_\_\_

## 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 332: Linear Algebra	___	<u>3</u>
MATH 152: Calculus II	___	<u>4</u>			

\*May be fulfilled by taking PSYC 251 or SOC 302.

### 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 Mid. Sch.I	___	<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>

If you wish to use transferred courses toward major/minor requirements you must use the course substitution process. Come to the Academic Advising Center for more information.

« <b>A. Teacher Education Program</b>	<b>31 credits</b>
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### FOR TEACHER CERTIFICATION

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

#### Orientation

ESEC 100: Intro to Teaching	___	<u>1</u>
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#### Learners

ESEC 150: Dev., Excep., Learning I	___	<u>3</u>
ESEC 250: Dev., Excep., Learning II	___	<u>3</u>

#### Fundamentals

ESEC 282: Literacy in the Content Areas	___	<u>3</u>
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#### Settings

•ESEC 320: Ed Environ. and Practices	___	<u>3</u>
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#### Methodology

•ESEC 385: Methods - Secondary	___	<u>3</u>
•ESEC 386: Methods - Field Experience	___	<u>3</u>

taken concurrently with

Methods

#### Pedagogy

•ESEC 387: Creating Soc. Contexts Learn.	___	<u>3</u>
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#### Systems

•ESEC 450: Seminar - Ed. Principles	___	<u>3</u>
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taken concurrently  
with student teaching

#### Practice

•ESEC 460: Student Teaching	___	<u>12</u>
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