

**KEENE STATE COLLEGE
BACHELOR OF SCIENCE
EDUCATION
MIDDLE/JUNIOR HIGH MATHEMATICS
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, 208, 301, 302, 303, 304, 308, 312.

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 (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, IDSS, POSC, PSYCH, SOC or an approved interdisciplinary course (WS 201* or an 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. 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 _____ 4

CS 140: COMPUTER PROGRAMMING I _____ 3 _____

*WS 201 may be used only once, to fulfill either an Arts & Humanities or Social Sciences General Education requirement.

Please make sure you are meeting the General Education requirements (if they are in addition to those required for this degree), for your other major as well!

II. MAJOR REQUIREMENTS 41 credits

MATH CORE 17 credits

*MATH 141: Intro to Statistics	___ 3_	MATH 225: Intro to Abstract Math	___ 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 Math	___ 3_
MATH 371: Math Concepts Mid. Sch.I	___ 3_
MATH 475: Issues & Trends in Math Ed	___ 3_

At Least One Of:

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_

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.

« **A. Teacher Education Program 31 credits**

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: Intro to Teaching	___	1_
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Learners

*ESEC 150: Dev., Excep., Learning I	___	3_
ESEC 250: Dev., Excep., Learning II	___	3_

Fundamentals

*ESEC 282: Literacy in the Content Areas	___	3_
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Settings

ESEC 320: Ed Environ. and Practices	___	3_
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Methodology

ESEC 384: Methods - Middle	___	3_	
ESEC 386: Methods - Field Experience	___	3_	taken concurrently with Methods

Pedagogy

ESEC 387: Creating Soc. Contexts Learn.	___	3_
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Systems

ESEC 450: Seminar - Ed. Principles	___	3_	taken concurrently with student teaching
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Practice

ESEC 460: Student Teaching	___	12
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