

**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 _____
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 courses from Arts & Humanities disciplines: AMST, ART, COMM, ENG, FILM, FR, GER, HIST, 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, PSYC, 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 General Education requirements. CS 140 is required for the major and may be used to fulfill General Education 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 _____

II. MAJOR REQUIREMENTS 42 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 completing PSYC 251 or SOC 302.

SECONDARY CERTIFICATION OPTION 25 credits

MATH 251: Multivariate Calculus	___	<u>4</u>
MATH 265: Mathematical Modeling	___	<u>3</u>
MATH 310: History of Mathematics	___	<u>3</u>
MATH 320: Geometry	___	<u>3</u>
MATH 331: Modern Algebra	___	<u>3</u>
MATH 341: Mathematical Probability	___	<u>3</u>
MATH 351: Intermediate Analysis	___	<u>3</u>
MATH 475: Issues, Trends in Math Ed.	___	<u>3</u>

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. Come to the Academic 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	___	<u>1</u>
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Learners

ESEC 150: Development, Exceptionality and Learning I***	___	<u>3</u>
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ESEC 250: Development, Exceptionality and Learning II	___	<u>3</u>
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Fundamentals

ESEC 282: Lit in Content Areas***	___	<u>3</u>
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Settings

ESEC 320: Educational. Environments/		
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Methodology

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

ESEC 450: Seminar: Educational Principles	___	<u>3</u>
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Practice

ESEC 460: Student Teaching	___	<u>12</u>
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The following course is highly recommended

Pedagogy

ESEC 387: Creating Social Contexts for Learning	___	<u>3</u>
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***requires a minimum of 1-3 hrs. of field work in the schools or service learning

