

Interdisciplinary and Multidisciplinary Programs

A. Bachelor of Liberal Studies

Teachers for Elementary and Middle Schools (TEAMS) K-8 Certification Track

The curriculum for this degree is designed to train K-8 teachers in interdisciplinary education, so that they may better teach K-8 students. To be eligible for this degree students must be accepted into the Teachers for Elementary and Middle Schools (TEAMS) Program of the College of Education and Human Development, and must complete the TEAMS Program to teaching certification. Any student who drops the TEAMS Program before certification must apply their completed hours to another degree program.

I. *Core Curriculum* (34-35 credits)

EYE Course (Recommend EYE 108)

English Composition: Core C course

Quantitative Decision Making (MAT 120D: Introduction to Statistics)

Skills of Analysis/Philosophy: Core E course

Performance-centered Arts (THE 102F: Acting for non-majors)

History-centered Arts: Core G course

Humanities: (ENG 120H: Introduction to Literature)

Other times/ Other cultures: Core I course

Social Sciences (HRD 200J: Human Growth and Development)

Social Sciences (LIN 185J: Language, Mind and Society)

Natural Sciences: Core K course

II. *English/Language Arts Courses* (6 credits)

Choose 2 courses from the following list:

a. ENG 203: Topics in Writing

b. ENG 245: Introduction to Literary Studies*

c. ENG 262: Poetry, the Genre

d. ENG 263: Fiction, the Genre

e. A 300-level course on American Literature

* Those pursuing a concentration in English need 6 credits from this list in addition to this course.

III. *Mathematics Courses* (9 credits)

MAT 131 Number Systems for Elementary Teachers

MAT 231 Algebra for Elementary Teachers

MAT 232 Geometry for Elementary Teachers

IV. *Science Courses* (8 credits)

Choose 2 lab sciences from the following:

CHY 110K Chemistry, Life and the Environment

BIO 101/102K Biological Foundations and Biological Experiences

BIO 103/104K Introduction to Marine Biology and Marine Biology
Lab

AST 100/103K Astronomy and Astronomy Exercises and Experiences

GEY 100/101K Volcanoes, Earthquakes and Moving Plates and
Laboratory Experiences in Geology

GEY 105/106K Ocean Planet and Ocean Planet Laboratory

GEY 109K Field Geology of Maine

PHY 101/102K Introduction to Physics and Introduction to Physics Lab

ESP 101/102K Fundamentals of Environmental Science & Laboratory

V. *Social Studies Courses* (12 credits)

HTY 101I Western Civilization I

HTY 121I United States History to 1800

POS 101J	Intro. to American Government
GEO 101J	Human Geography

VI. *Courses in a Concentration* (18 credits)

English Language and Literature
 Mathematics
 Social Studies
 Science

VII. *B.A. Education Courses* (34 credits)

EDU 120/121	Language and Literacy Development and Field Experience
EDU 211/212	Culture and Community and Field Experience
EDU 200	Education in the United States or EYE 108 Culture, Identity and Education
EDU 220/221	Middle School Community and Field Experience
EDU 320/321	Applied Skills in Teaching and Learning and Field Experience
EDU 390	Portfolio Development
EDU 541	Seminar in Teaching, Learning and Assessment I
EDU 544	Applied Pedagogy
EDU 566	Intro. to the Writing Process
SED 540:	Nature and Needs of Learners Who Are Exceptional

Total 121-122 credits--B.A. in liberal studies is awarded and students matriculate into a master's of teaching and learning program (MTL).

VIII. *Post-B.A. Education Courses* (21 credits)

EDU 505	Teaching Mathematics, K-8
EDU 542	Seminar in Teaching, Learning and Assessment II
EDU 551	Teaching Social Studies
EDU 552	Teaching Science
EDU 565	Teaching Reading
EDU 644	Internship in Elem. Educ. (6 cr.)
	Recommendation for K-8 Teacher Certification

X. *Post-Certification Education Courses* (13 credits)

EDU 600	Research Methods and Techniques
EDU 624	Schools and the Classroom
EDU 627/628/629	Classroom Assessment and Research Development
	M.S. in Education with an MTL concentration awarded.

Concentrations

Students must complete at least 17 credit hours in their area of concentration in addition to general education and content area courses required of all TEAMS students. Courses are subject to revision based upon changes to departmental curriculum and the implementation of the general education curriculum.

A. English Literature and Language

In addition to the English courses required of all TEAMS students, those who would like a concentration in English, Literature and Language must complete the following courses:

Two courses with an emphasis on writing skills, literary analysis, rhetoric, and style (e.g., ENG 203, 305, and 330)

One pre-1800 Literature and Culture course

Two post-1800 Literature and Culture courses

One 300-400 level Literature and Culture course

B. Social Studies

In addition to the social studies required of all TEAMS students, those who would like a concentration in Social Studies must complete the following courses:

HTY 102I Western Civilization II

HTY 122I United States History from 1800 to 1900

HTY 360 History of Maine

or

GEO 120J Geography of Maine

ANT 220I North American Indians

At least two 300-400 level courses in one of the following disciplines: History, Geography, Anthropology, Political Science, or Economics.

C. Math

In addition to the math courses required of all TEAMS students, those who would like a concentration in Math must complete the following courses:

MAT 108 College Algebra

MAT 140D Pre-Calculus Mathematics

or

MAT 152D Calculus A

MAT 145 Discrete Mathematics I

MAT 460 Mathematical Modeling.

MME 445 Teaching 7-12 Mathematics in Maine: Curriculum and Capstone Course

D. Science

Students choose either the Physical or Life Sciences Track.

Choose one of the following two tracks:

Physical Science

Required of all students in Physical Science Concentration: *Credits*

PHY 111K/114K Elements of Physics I Lecture and Lab 4

PHY 112/116 Elements of Physics II Lecture and Lab 4

CHY 113K/114K Principles of Chemistry I Lecture and Lab 4

CHY 115/116 Principles of Chemistry II Lecture and Lab 4

GEY 100K Volcanoes, Earthquakes, and Moving Plates 3

GEY 101K Laboratory Experiences in Geology 1

Choose at least 10 credits from the following courses, from at least two disciplines: *Credits*

PHY 211 Non-classical Physics
(requires MAT 152D Calculus) 3

CHY 231/232 Analytic Chemistry and Lab 4

CHY 251/252 Organic Chemistry I and Lab 5

CHY 253/254 Organic Chemistry II and Lab 5

GEY 201 Paleogeography and Global Change 4

GEY 202 Landscape Evolution and Analysis 4

GEY 203 Mineralogy 4

GEY 295 Water Resources: Science and Issues 3

ESP/
GEY 207 Atmosphere: Science, Climate, and Change 3

ESP 250 Soils and Land Use 4

Life Science

Required of all students in the Life Science Concentration: *Credits*

BIO 105K/106K Biological Principles I: Cellular Biology and
Laboratory 4.5

BIO 107 Biological Principles II: Evolution, Biodiversity,
and Ecology 4.5

BIO 109 Biological Principles III: Functional Biology 3

BIO 217 Evolution 3

ESP 101K/102K Fundamentals of Environmental Science and Lab 4

Choose at least 12 credits from the following: *Credits*

BIO 201 Genetics 3

BIO 231 Botany 4.5

BIO 251 History of Biology 3

BIO 305 Developmental Biology 3

BIO 306 Developmental Lab 2

BIO	331	Ecology	3
BIO	332	Field Ecology	2
BIO	335	Entomology	3
BIO	351	Invertebrate Zoology	5
BIO	353	Vertebrate Zoology	5
ESP	125	Intro. to Environmental Ecology	3
ESP	126	Intro. to Environmental Ecology Lab	1