



## Approved Mathematics, Science and History/Geography Courses for Elementary Education

The following mathematics courses are approved to fulfill the **24-credit mathematics concentration**, as well as the **additional mathematics** course requirement for elementary education teachers.

### Approved Mathematics Courses for all Elementary Education Students

<u>Department</u>	<u>Number</u>	<u>Course Name</u>	<u>Credits</u>
MATH	1011Q	Introductory College Algebra and Mathematical Modeling	3
MATH	1020Q	Problem Solving	3
MATH	1030Q	Elementary Discrete Mathematics	3
MATH	1060Q	Pre-Calculus	3
MATH	1070Q	Mathematics for Business and Economics	3
MATH	1071Q	Calculus for Business and Economics	3
MATH	1131Q	Calculus 1	4
MATH	1132Q	Calculus 2	4
MATH	2010Q*	Fundamentals of Algebra and Geometry	3
MATH	2011Q**	Fundamentals of Algebra and Geometry	3
STAT	1000Q	Introduction to Statistics I	4
STAT	1100Q	Elementary Concepts of Statistics	4
STAT	2215Q	Intro to Statistics II	3

**NOTE:** Please check University of Connecticut [Undergraduate Catalog](#) for course description and required prerequisite courses for courses listed above.

\* **MATH 2010Q** is required for elementary education students. Prerequisite is PSYC 1100 and one MATH Q course (a statistics course will not count as the prerequisite math course).

\*\***MATH 2011Q** is highly recommended for elementary education students.

**ELED Students with 24-credit MATH Concentration – you can take the any of the math in the table above OR the courses below.**

<u>Department</u>	<u>Number</u>	<u>Course Name</u>	<u>Credits</u>
ACCT	2001	Principles of Financial Accounting	3
CSE	1010	Intro to Computing for Engineers	3
ENGR	1166	Foundations of Engineering	3
PHYS	1010Q	Elements of Physics	4
PHYS	1020Q	Introductory Astronomy	3
PHYS	1025Q	Introductory Astronomy with Lab	4
PHYS	1040QE	Cosmic Origins of Life	3
PHYS	1075Q	Physics of Music	4
PHYS	1201Q	General Physics I	4
PHYS	1202Q	General Physics II	4

The following courses are approved to fulfill the **24-credit science concentration**, as well as the **additional science** course requirement for elementary education teachers.

### Approved Science Courses

<u>Department</u>	<u>Number</u>	<u>Course Name</u>	<u>Credits</u>
ANSC	1645	The Science of Food	3
BIOL	1102	Foundations of Biology, CA3-LAB	4

<b>Approved Science Courses</b>			
<b>Department</b>	<b>Number</b>	<b>Course Name</b>	<b>Credits</b>
BIOL	1103	The Biology of Human Health and Disease, CA3-LAB	4
BIOL	1110	Introduction to Botany, CA3-LAB	4
EEB	2100E	Global Change Ecology CA3, E	3
EEB	2202	Evolution and Human Diversity, CA4-INT	3
EEB	2208E	Introduction to Conservation Biology, CA3, E	3
EEB	2222E	Plants in a Changing World, E	3
ENVE	1000E	Environmental Sustainability, CA2	3
ERTH	1000E	The Human Epoch: Living in the Anthropocene, CA3, E	3
ERTH	1010	Dinosaurs, Extinctions, and Environmental Catastrophes CA3	3
ERTH	1050	Earth's Dynamic Environment (with Lab)	4
ERTH	1051	Earth's Dynamic Environment	3
ERTH	1052	Earth's Dynamic Environment (Laboratory)	1
ERTH	1070	Natural Disasters and Environmental Change CA3	3
ERTH	2310E	National Parks Unearthed, E	3
EVST	1000E	Introduction to Environmental Studies CA2, E	3
GEOG	1000	Introduction to Geography CA2	3
GEOG	1070	Natural Disasters and Environmental Change CA3	3
GEOG	1300E	Climate, Weather, and the Environment, CA3, E	3
GEOG	1302	GIS Modeling of Environmental Change CA3-LAB	4
GEOG	2300	Introduction to Physical Geography	3
GEOG	2310E	National Parks Unearthed, E	3
GEOG	2320E	Climate Change: Current Geographic Issues, CA2, E	3
GEOG	2350E	Geography of Energy for Sustainability, CA2. CA4-INT., E	3
GEOG	2400E	Intro to Sustainable Cities, CA2, E	3
GEOG	3350E	Global Change, Local Action: A Geography of Environmentalism, E	2
GEOG	3400	Climate and Weather	3
GEOG	3410E	Human Modifications of Natural Environments, E	3
MARN	1001E	The Sea Around Us, E	3
MARN	1002E	Introduction to Oceanography, E	3
MARN	1003E	Introduction to Oceanography, CA3-LAB, E	4
NRE	1000E	Environmental Science CA 3, E	3
NRE	1235E	Environmental Conservatism, E	3
NRE	2215E	Intro. To Water Resources, E	3
NRE	2345	Introduction to Fisheries and Wildlife	3
NRE	2600E	Global Sustainable Natural Resources, CA4-INT, E	3
NRE	3145	Meteorology	3
NRE	3146	Climatology	3
NUSC	1030	Interdisciplinary Approach to Obesity Prevention (Honors course)	3
NUSC	1165	Fundamentals of Nutrition	3
NUSC	1645	The Science of Food	3
PHAR	1000	Drugs: Actions and Impact on Health and Society, CA3	3
PHAR	1001E	Toxic Chemicals and Health, CA3, E	3
PHYS	1010Q	Elements of Physics, CA3-LAB	4
PHYS	1020Q	Introductory Astronomy, CA3	3
PHYS	1025Q	Introductory Astronomy, CA3-LAB	4
PHYS	1030Q	Physics of the Environment, CA3	3
PHYS	1035Q	Physics of the Environment, CA 3-LAB	4
PHYS	1040QE	Cosmic Origins of Life CA3, E	3
SCI	1150	Unifying Concepts in Biology, Chemistry, and Physics	4
SLHS	1150	Intro. to Communication Disorders	3
SPSS	1110	Fundamentals of Horticulture	3
SPSS	1125	Insects, Food and Culture	3
SPSS	1150	Agricultural Technology and Society, CA3	3

The following History/Geography courses are recommended for the History/Geography single subject, as well as for other elementary educators seeking additional courses or content that could support their elementary social studies teaching.

NOTE: 1. Additional courses can also be counted for the History/Geography single subject area if they are taught in the history or geography department

2. Preservice teachers cannot count more than two 1000-level HIST/GEOG courses towards a history/geography single subject major.

3. Subjects that are cross-listed as History or Geography courses may also be counted (e.g., AFRA 3206).

**History and Geography Courses with Content More Likely to Support Elementary Teaching** (other history/geography courses can also count towards single subject matter)

<b>Department</b>	<b>Number</b>	<b>Course Name</b>	<b>Credits</b>
HIST	1501/1501W	United States History to 1877	3
HIST	2100	The Historian's Craft	3
HIST	2206	History of Science	3
HIST	2210E	History of the Ocean	3
HIST	2222E	Global Environmental History	3
HIST	2530	Asian-American Experience since 1850	3
HIST	2570	American Indian History	3
HIST	3201	History of Human Rights	3
HIST	3206	Black Experience in the Americas	3
HIST	3502/3502W	Colonial America: Native Americans, Slaves, & Settlers, 1492-1760	3
HIST	3504	The American Revolution	3
HIST	3510	Civil War America	3
HIST	3520	Social and Cultural History of Connecticut and New England	3
HIST	3522	History of Connecticut	3
HIST	3540E/3540WE	American Environmental History	3
HIST	3542	New England Environmental History	3
HIST	3550	Constitutional History of the United States	3
HIST	3554	Immigrants and the Shaping of American History	3
HIST	3559	History of Childhood in the United States	3
HIST	3560	Constructions of Race, Gender, and Sexuality in U.S. History	3
HIST	3561	History of Women and Gender in the U.S. to 1850	3
HIST	3563	African American History to 1865	3
GEOG	1070	Natural Disasters and Environmental Change	3
GEOG	1300E	Climate, Weather, and the Environment	3
GEOG	1700	World Regional Geography	3
GEOG	2100	Economic Geography	3
GEOG	2200	Introduction to Human Geography	3
GEOG	2300E	Introduction to Physical Geography	3
GEOG	2320E	Climate Change: Current Geographic Issues	3
GEOG	3400	Climate and Weather	3

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