

Recommended Mathematics and Science Courses for Elementary Education and Comprehensive Special Education

The following Mathematics courses are recommended to fulfill the Mathematics single subject, as well as the additional Mathematics course requirement for prospective elementary or comprehensive special education teachers.

Recommended Mathematics Courses

| Department | Number | Course Name | Credits |
|------------|---------|--|---------|
| 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 |

NOTE: Please check University of Connecticut General Catalog for course description and required prerequisite courses for courses listed above.

* MATH 2010Q is required for elementary education students. Prerequisite is one MATH Q course.

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

The following Science courses are recommended to fulfill the Science single subject, as well as the additional Science course requirement for prospective elementary or comprehensive special education teachers.

Recommended Science Courses

| Department | Number | Course Name | Credits |
|------------|--------|--|---------|
| ANSC | 1645 | The Science of Food | 3 |
| BIOL | 1102 | Foundations of Biology | 4 |
| BIOL | 1103 | The Biology of Human Health and Disease | 4 |
| BIOL | 1110 | Introduction to Botany | 4 |
| EEB | 2202 | Evolution and Human Diversity | 3 |
| EEB | 2208 | Introduction to Conservation Biology | 3 |
| EVST | 1000 | Introduction to Environmental Studies | 3 |
| GEOG | 1070 | Natural Disasters and Environmental Change | 3 |
| GEOG | 1300 | Climate, Weather, and the Environment | 3 |
| GEOG | 1302 | GIS Modeling of Environmental Change | 4 |
| GEOG | 2300 | Introduction to Physical Geography | 3 |
| GEOG | 2310 | National Parks Unearthed | 3 |
| GEOG | 3400 | Climate and Weather | 3 |

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Recommended Science Courses

| <u>Department</u> | <u>Number</u> | <u>Course Name</u> | <u>Credits</u> |
|-------------------|---------------|--|----------------|
| GSCI | 1010 | Dinosaurs, Extinctions, and Environmental Catastrophes | 3 |
| GSCI | 1050 | Earth's Dynamic System (with Lab) | 4 |
| GSCI | 1051 | Earth's Dynamic Environment | 3 |
| GSCI | 1052 | Earth's Dynamic Environment (Laboratory) | 1 |
| GSCI | 1070 | Natural Disasters and Environmental Change | 3 |
| GSCI | 2310 | National Parks Unearthed | 3 |
| MARN | 1001 | The Sea Around Us | 3 |
| MARN | 1002 | Introduction to Oceanography | 3 |
| MARN | 1003 | Introduction to Oceanography (with Lab) | 4 |
| NRE | 1000 | Environmental Science | 3 |
| NRE | 2345 | Introduction to Fisheries and Wildlife | 3 |
| NRE | 2600 | Global Sustainable Natural Resources | 3 |
| NRE | 3145 | Meteorology | 3 |
| NRE | 3146 | Climatology | 3 |
| NUSC | 1165 | Fundamentals of Nutrition | 3 |
| NUSC | 1645 | The Science of Food | 3 |
| PHAR | 1000 | Drugs: Actions and Impact on Health and Society | 3 |
| PHAR | 1001 | Toxic Chemicals and Health | 3 |
| PHYS | 1010Q | Elements of Physics | 4 |
| PHYS | 1020Q | Introductory Astronomy | 3 |
| PHYS | 1025Q | Introductory Astronomy (with Lab) | 4 |
| PHYS | 1030Q | Physics of the Environment | 3 |
| PHYS | 1035Q | Physics of the Environment (Lab) | 4 |
| 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 | 3 |

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If you have any questions, please contact Dr. Ann Traynor, ann.traynor@uconn.edu or 860.486.1354.