

2016

## UNO Website-GenEd Committee-Natural and Physical Sciences

UNO General Education Assessment Committee  
*University of Nebraska at Omaha*

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# Natural & Physical Sciences

## Approved Courses

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### • Natural & Physical Sciences

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### Distribution Requirements

Beyond the fundamental academic skills, courses within the distribution requirements provide students with the opportunity to: 1) understand, analyze, and explore the human condition; 2) understand the complex dynamics that make up the world particularly the challenges, problems and factors that lead to social stability and change as essential for contributing to and living in contemporary society; and 3) understand the nature of scientific inquiry and the operation of the natural, physical and technological world for making personal and public policy decisions.

### Questions?

If you have questions about General Education, please contact us at [unogened@unomaha.edu](mailto:unogened@unomaha.edu).

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Understanding the nature of scientific inquiry and the operation of the natural, physical, and technological world is essential for making personal and public policy decisions.

To fulfill their **distribution requirements**, students must complete seven credit hours of coursework, representing at least two disciplines in this category, with at least one laboratory course. In addition, students must complete nine credit hours of coursework in Social Sciences, and nine credit hours in Humanities & Fine Arts towards their distribution requirements. Distribution requirements comprise 25 hours of the general education curriculum.

### Student Learning Outcomes

Successful students shall be able to do the following:

- demonstrate a broad understanding of the fundamental laws and principles of science and interrelationships among science and technology disciplines;
- demonstrate a broad understanding of various natural and/or physical phenomena that surround and influence our lives;
- describe how scientists approach and solve problems including an understanding of the basic components and limitations of the scientific method; and
- solve problems and draw conclusions based on scientific information and models, using critical thinking and qualitative and quantitative analysis of data and concepts in particular to distinguish reality from speculation.

Please see the table below for a list of Natural & Physical Sciences courses that have been approved for inclusion in the general education curriculum.

### Natural & Physical Sciences Approved Courses

Course Number	Course Title	Credits	Prerequisite
ANTH 3910	Introduction to Physical Anthropology	3	YES
BIOL 1000	Introduction to Bioinformatics	3	
BIOL 1020	Principles of Biology	5	
BIOL 1330	Environmental Biology	3	
BIOL 1450	Biology I	5	YES
BIOL 2120	Sustainable Landscape Plants	4	YES
BMCH 2400	Human Physiology & Anatomy I	4	
CHEM 1010	Chemistry in the Environment and Society	3	YES
CHEM 1014	Chemistry in the Environment and Society Laboratory	1	YES
CHEM 1140	Fundamentals of College Chemistry	4	YES
CHEM 1144	Fundamentals of College Chemistry Laboratory	1	YES
CHEM 1180	General Chemistry I	3	YES
CHEM 1184	General Chemistry I Laboratory	1	YES
CSCI 1200	Computer Science Principles	3	YES
CSCI 1204	Computer Science Principles Laboratory	1	YES
ENVN 2120	Sustainable Landscape Plants	4	YES
FSCI 1310	Science of Food	3	
FSMT 1600	Fundamentals of Fire Science	3	
GEOG 1030	Introduction to Physical Geography	4	
GEOG 1050	Human Environment Geography	4	
GEOG 1060	Physical Geography Climate and Waters	4	
GEOG 1070	Physical Geography: Soils and Landforms	4	
GEOG 1090	Introduction to Geospatial Sciences	4	
GEOG 3510	Meteorology	3	
GEOG 3514	Introduction to Meteorology Lab	1	YES
GEOL 1010	Environmental Geology	3	
GEOL 1100	Earth System Science	3	
GEOL 1104	Earth System Science Laboratory	1	
GEOL 1170	Introduction to Physical Geology	4	
GEOL 2100	Geology of Nebraska	3	
GEOL 2500	Special Topics in Geography-Geology	1	
HORT 1300	Introduction to Horticultural Science	3	
HORT 1310	Introduction to Horticultural-Science/Lab	1	YES
NSCI 1050	Science and Critical Thinking	3	
PE 2400	Human Physiology and Anatomy I	4	
PHYS 1030	Physics of Everyday Life	3	YES
PHYS 1034	Physics of Everyday Life Laboratory	1	YES
PHYS 1050	Introduction to Physics	4	YES

<b>PHYS 1054</b>	introduction to Physics Laboratory	1	YES
<b>PHYS 1110</b>	General Physics I with Algebra	4	YES
<b>PHYS 1154</b>	General Physics Laboratory I	1	YES
<b>PHYS 1350</b>	Principles of Astronomy	3	YES
<b>PHYS 1354</b>	Introductory Astronomy Lab	1	YES
<b>PHYS 2110</b>	General Physics 1 - Calculus Level	4	YES
<b>TED 1100</b>	Inquiry-based Thinking in STEM	3	

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