

# NATURAL SCIENCES COURSES

These courses have been approved as General Education Natural Sciences courses. This course list is updated periodically. Descriptions and learning criteria for General Education Natural Sciences courses can be found in the Foundation and Knowledge Domains section (<https://bulletins.psu.edu/undergraduate/general-education/domains/>).

Code	Title	Credits
ACS 97G	Special Topics - GenEd	1-9
ACS 97N	Special Topics - InterDomain	1-9
AEE 204N	Science Literacy and Policy in the 21st Century	3
AERSP 197N	Special Topics - InterDomain	1-9
AFR 105	African Biodiversity and Conservation	3
AG 180N	Contemporary Issues in Food, Ag, Natural Resources, and Human Sciences	3
AGBM 170N	Investigating the U.S. Food System: How food moves from field to table	3
AGECO 121	Plant Stress: It's Not Easy Being Green	3
AGECO 122	Atmospheric Environment: Growing in the Wind	3
AGECO 134N	Sustainable Agriculture Science and Policy	3
AGECO 144	Principles and Practices of Organic Agriculture	3
ANSC 100	Introduction to Animal Industries	3
ANSC 107	Introduction to Equine Science and the Equine Industry	3
ANSC 332N	Science and policy of global greenhouse gas emissions and management	3
ANSC 447	Equine Exercise Physiology	3
ANTH 21	Introductory Biological Anthropology	3
ANTH 22	Humans as Primates	3
ANTH 40Q	Biocultural Evolution	3
ANTH 100N	Anthropology of Race and Racism	3
ANTH 129N	Chocolate Worlds	3
ANTH 150N	Human Nature: The Science of Extreme Altruism and Violence	3
ANTH 150Q	Human Nature: The Science of Extreme Altruism and Violence	3
ANTH 210N	Anthropology, Ancestry, and You	3
ANTH 216N	Sex and Evolution	3
ANTH 219N	Spillover: The Anthropology of Emerging Infectious Diseases	3
ANTH 240N	Livelihoods and Ecosystems: Anthropological Approaches to Human-Environment Interaction	3
ANTH 375Q	Anthropology of Food Honors	3
ARCH 170N	Introduction to Sustainable Architecture	3
ART 51N	Meteorology and Visual Arts: To Know is to See	3
ART 160N	STEAM: Connecting Art to Science, Technology, Engineering and Mathematics	3
ART 170N	Plant and Microbial Art	3
ARTH 107N	Rocks, Minerals, and the History of Art	3
ASTRO 1	Astronomical Universe	3
ASTRO 5	The Sky and Planets	3
ASTRO 6	Stars, Galaxies, and the Universe	3
ASTRO 7N	The Artistic Universe	3
ASTRO 10	Elementary Astronomy	2
ASTRO 11	Elementary Astronomy Laboratory	1
ASTRO 19N	Being in the Universe	3
ASTRO 120	The Big Bang Universe	3
ASTRO 130	Black Holes in the Universe	3
ASTRO 140	Life in the Universe	3
ASTRO 141N	Film and Extraterrestrial Life: Science Fact or Fiction?	3
ASTRO 291	Astronomical Methods and the Solar System	3
ASTRO 320	Observational Astronomy Laboratory	3
BIOL 11	Introductory Biology I	3
BIOL 12	Introductory Biology II	1
BIOL 110	Biology: Basic Concepts and Biodiversity	4
BIOL 110H	Honors Biology: Basic Concepts and Biodiversity	4
BIOL 127	Introduction to Plant Biology	3
BIOL 133	Genetics and Evolution of the Human Species	3
BIOL 141	Introduction to Human Physiology	3
BIOL 144	Climate Change: Biological Impacts	3
BIOL 155	Introduction to the Biology of Aging	3
BIOL 160N	Fitness with Exercise Physiology	3
BIOL 161	Human Anatomy and Physiology I - Lecture	3
BIOL 162	Human Anatomy and Physiology I - Laboratory	1
BIOL 163	Human Anatomy and Physiology II - Lecture	3
BIOL 164	Human Anatomy and Physiology II - Laboratory	1
BIOL 169N	What it means to be human	3
BIOL 177	Biology of Sex	3
BISC 2	Genetics, Ecology, and Evolution	3
BISC 3	Environmental Science	3
BISC 4	Human Body: Form and Function	3
BMB 1	The Science of Sickness	3
BMB 1Z	The Science of Sickness - Linked	3
CHEM 1	Molecular Science	3
CHEM 3	Molecular Science With Laboratory	3
CHEM 5	Kitchen Chemistry	3
CHEM 101	Introductory Chemistry	2-3
CHEM 106	Introductory and General Chemistry	5
CHEM 110	Chemical Principles I	3
CHEM 110H	Chemical Principles I - Honors	3
CHEM 111	Experimental Chemistry I	1
CHEM 112	Chemical Principles II	3
CHEM 112H	Chemical Principles II - Honors	3
CHEM 113	Experimental Chemistry II	1
CHEM 113B	Experimental Chemistry II--Bioscience	1
CHEM 130	Introduction to General, Organic, and Biochemistry	3
CHEM 233N	Chemistry and Literature	3
CMLIT 19N	Being in the Universe	3
CMLIT 183Q	From Beast Books to Resurrecting Dinosaurs	3
COMM 151N	Film and Extraterrestrial Life: Science Fact or Fiction?	3
DANCE 370	Anatomy and Physiology for Performers	3
DANCE 370Z	Anatomy and Physiology for Performers	3
EARTH 2	The Earth System and Global Change	3

2 Natural Sciences Courses

EARTH 10	Energy and Earth's Climate	1	GEOSC 20	Planet Earth	3
EARTH 100	Environment Earth	3	GEOSC 30	Volcanoes	3
EARTH 101	Natural Disasters: Hollywood vs. Reality	3	GEOSC 40	The Sea Around Us	3
EARTH 103N	Earth in the Future: Predicting Climate Change and Its Impacts Over the Next Century	3	GEOSC 50	Planetary Geology	3
EARTH 104N	Climate, Energy and Our Future	3	GEOSC 97N	Special Topics	1-9
EARTH 105N	Environments of Africa: Geology and Climate Change	3	GEOSC 107N	Rocks, Minerals, and the History of Art	3
EARTH 107N	Coastal Processes, Hazards and Society	3	GEOSC 110H	The Science of Gemstones	3
EARTH 109	The Fundamentals of Shale Energy Development	3	GEOSC 212N	Earthquakes and Human History	3
EARTH 111N	Water: Science and Society	3	GER 115N	Science, Humanity and Catastrophe: Scientific Discovery in Germany	3
EARTH 150	Dinosaur Extinctions and Other Controversies	3	GER 197E	Special Topics GN/GH	3
EARTH 155N	Scientific Controversies and Public Debate	3	HHD 200N	Addiction Science to Society	3
EARTH 200N	Earth Systems Through a Soc & Envir Justice Lens	3	HIST 6N	History and Weather: How Weather Played an Instrumental Role in Great World Events	3
EGEE 101	Energy and the Environment	3	HIST 125N	History of Infectious Disease and Epidemiology	3
EGEE 101H	Energy and the Environment	3	HIST 128N	Cultural Perspectives on Mathematics	3
EGEE 102	Energy Conservation for Environmental Protection	3	HIST 129N	Chocolate Worlds	3
EGEE 110N	Environmental Health and Safety Science	3	HIST 212N	Earthquakes and Human History	3
EGEE 397N	Special Topics - Inter Domain	1-999	HORT 101	Horticultural Science	3
EMSC 240N	Energy and Sustainability in Contemporary Culture	3	HORT 150N	Plants in the Human Context	3
ENGL 142N	Science in Literature	3	HORT 169N	Fundamentals of Home Landscaping: An Introduction to Design, Construction, and Maintenance	3
ENGL 163N	Defining the Animal	3	INART 50	The Science of Music	3
ENGL 233N	Chemistry and Literature	3	INTAG 100N	Everyone Eats: Hunger, Food Security & Global Agriculture	3
ENGR 115N	Science, Humanity and Catastrophe: Scientific Discovery in Germany	3	INTAG 297N	Special Topics - Inter Domain	1-9
ENGR 120N	Design Thinking and 3D Printing in Engineering and Healthcare	3	KINES 160N	Fitness with Exercise Physiology	3
ENT 202N	Insect Connections: Insects, Globalization and Sustainability	3	LARCH 297N	Special Topics - Inter Domain	1-9
ENT 216N	Plagues Through the Ages	3	MATSE 81	Materials in Today's World	3
ENT 222N	Honey Bees and Humans	3	MATSE 101	Energy and the Environment	3
ENVST 100N	Visions of Nature	3	MATSE 112	Applied Materials Chemistry for Engineers	3
FDSC 223	Understanding Science Through Wine Beer and Bread	3	MATSE 297N	Special Topics - Inter Domain	1-9
FOR 297N	Special Topics - Inter Domain	1-9	METEO 3	Weather Revealed: Introductory Meteorology	3
FRNSC 100	Introduction to Forensic Science	3	METEO 4	Weather and Risk	3
FRNSC 200	Introduction to Crime Scene Investigation	3	METEO 5	Severe and Unusual Weather	3
GAME 180N	The Art and Science of Virtual Worlds	3	METEO 6N	History and Weather: How Weather Played an Instrumental Role in Great World Events	3
GEOG 1N	Global Parks and Sustainability	3	METEO 7	An Introduction to Climate Sciences: Climate change, Variability, and Society	3
GEOG 3N	Food and the Future Environment	3	METEO 51N	Meteorology and Visual Arts: To Know is to See	3
GEOG 4	Earth and Environmental Systems Geography	3	METEO 122	Atmospheric Environment: Growing in the Wind	3
GEOG 6N	Maps and the Geospatial Revolution	3	METEO 133N	Ethics of Climate Change	3
GEOG 30N	Environment and Society in a Changing World	3	METEO 332N	Science and policy of global greenhouse gas emissions and management	3
GEOG 107N	Immersive Technologies - Transforming Society Through Digital Innovation	3	MICRB 106	Elementary Microbiology	3
GEOG 115	Landforms of the World	3	MICRB 107	Elementary Microbiology Laboratory	1
GEOG 210	Geographic Perspectives on Environmental Systems Science	3	NURS 325N	Health and Environmental Sustainability	3
GEOG 315	Landforms and Geomorphic Systems in the Anthropocene	3	NUTR 297N	Special Topics - Inter Domain	1-9
GEOG 330N	Political Ecology	3	PHIL 131N	BS: Identifying Bias and Falsehood	3
GEOG 332N	Science and policy of global greenhouse gas emissions and management	3	PHIL 133N	Ethics of Climate Change	3
GEOSC 10	Geology of the National Parks	3	PHOTO 321N	Flow Visualization: The Art and Physics of Fluid Motion	3
			PHYS 1	The Science of Physics	3

PHYS 10	Physics Behind the Headlines	3
PHYS 150	Technical Physics I	3
PHYS 151	Technical Physics II	3
PHYS 211	General Physics: Mechanics	4
PHYS 211H	General Physics: Mechanics	4
PHYS 212	General Physics: Electricity and Magnetism	4
PHYS 212H	General Physics: Electricity and Magnetism	4
PHYS 213	General Physics: Fluids and Thermal Physics	2
PHYS 214	General Physics: Wave Motion and Quantum Physics	2
PHYS 250	Introductory Physics I	4
PHYS 251	Introductory Physics II	4
PLANT 129N	Chocolate Worlds	3
PLANT 200	Introduction to Agricultural Crop Growth, Form, and Function	3
PLANT 220	Gardening for Fun and Profit	3
PLANT 240	Fundamentals of Cannabis: An Introduction to the Botany, Cultivation, and Harvesting of Hemp	3
PPEM 120	The Fungal Jungle: A Mycological Safari From Truffles to Slime Molds	3
PPEM 170N	Plant and Microbial Art	3
PPEM 300	Horticultural Crop Diseases	3
PSYCH 150N	Human Nature: The Science of Extreme Altruism and Violence	3
PSYCH 150Q	Human Nature: The Science of Extreme Altruism and Violence	3
PSYCH 169N	What it means to be human	3
PSYCH 217N	The Science of Human Resilience	3
PSYCH 263N	Science of Learning	3
RLST 133N	Ethics of Climate Change	3
SC 60N	Art in the Natural World	3
SC 103N	When Data Meets Design	3
SC 120N	Plants, Places, and People	3
SC 125N	History of Infectious Disease and Epidemiology	3
SC 135N	Society and Disease Management	3
SC 142N	Science in Literature	3
SC 145N	The Visual Body	3
SC 183Q	From Beast Books to Resurrecting Dinosaurs	3
SC 200	Science in Our World: Certainty and Controversy	3
SC 205N	BS: Identifying Bias and Falsehood	3
SC 290	Renewable Energy in Costa Rica	3
SC 297G	Special Topics - GenEd	1-9
SC 475N	Anatomy in Italy: Cadavers, Culture, and Science	3
SOILS 71	Environmental Sustainability	3
SOILS 101	Introductory Soil Science	3
STS 110N	Chemistry in World Wars I and II	3
SUST 150N	The Science of Sustainable Development	3
SUST 325N	Health and Environmental Sustainability	3
VBSC 280N	Current Topics in Veterinary Medicine	3
WFS 209N	Wildlife and Fisheries Conservation	3