Proposed pre-approved related courses for EEB majors

Note that some of these courses have restricted enrollment or pre-requisites outside of biology. Pre-approved courses include most MCB and PNB courses and others in the areas of applied ecology, environmental issues and sustainability, physical processes that affect ecological systems, and skills useful in the study of ecology and evolutionary biology.

**Allied Health (AH)**
AH 3174. Environmental Laws, Regulations and Issues
AH 3175. Environmental Health
AH 3320. Introduction to Infectious Diseases

**Animal Science (ANSC)**
ANSC 3122. Reproductive Physiology
ANSC 3311. Comparative Exercise Physiology
ANSC 3313. Growth Biology and Metabolism in Domestic Livestock
ANSC 4311. Advanced Animal Nutrition

**Anthropology (ANTH)**
ANTH 2502. Human Evolution
ANTH 3200. Human Behavioral Ecology
ANTH 3300. Medical Anthropology
ANTH 3302. Medical Ecology
ANTH 3340. Culture and Conservation
ANTH 3522. Ecological Anthropology Seminar
ANTH 3703. Zooarchaeological Method and Theory
ANTH 3705. Paleoanthropology
ANTH 3706. Archaeobotany

**Agricultural and Resource Economics (ARE)**
ARE 3150. Applied Resource Economics
ARE 3235. Marine Resource and Environmental Economics
ARE 3434. Environmental and Resource Policy
ARE 3437. Marine Fisheries Economics and Policy
ARE 3440W. Writing in Environmental and Resource Policy
ARE 4444. Economics of Energy, Climate, and the Environment
ARE 4438. Valuing the Environment

**Chemistry (CHEM)**
CHEM 2241. Organic Chemistry
CHEM 2242. Organic Chemistry Lab
CHEM 2443. Organic Chemistry
CHEM 2444. Organic Chemistry
CHEM 2445. Organic Chemistry Lab
CHEM 4370. Environmental Chemistry – Atmosphere
CHEM 4371. Environmental Chemistry – Hydrosphere

*Cognitive Science (COGS)*
COGS 2201. Foundations of Cognitive Science

*Economics (ECON)*
ECON 2467. Economics of the Oceans
ECON 3466. Environmental Economics

*Environmental Sciences (ENVS)*
ENVS 2000. Integrating Humans and the Environment

*Environmental Studies (EVST)*
EVST 3340. Culture and Conservation
EVST 3412. Global Environmental Politics

*Geography (GEOG)*
GEOG 2300. Introduction to Physical Geography
GEOG 2320. Climate Change: Current Geographic Issues
GEOG 2400. Introduction to Sustainable Cities
GEOG 2410. New Digital Worlds of Geographic Information Science
GEOG 2500. Introduction to Geographic Information Systems
GEOG 2505. Applications of Geographic Information Systems
GEOG 3320W. Environmental Evaluation and Assessment
GEOG 3330W. Environmental Restoration
GEOG 3340. Environmental Planning and Management
GEOG 3350. Global Change, Local Action: A Geography of Environmentalism
GEOG 3400. Climate and Weather
GEOG 3410. Human Modifications of Natural Environments
GEOG 3505. Remote Sensing of Marine Geography
GEOG 4220. Population Geography

*Geoscience (GSCI)*
GSCI 2310. National Parks Unearthed: Geology and Landscapes through Time
GSCI 2500. Earth System Science
GSCI 3010. Earth History and Global Change
GSCI 3020. Earth Surface Processes
GSCI 3230. Beaches and Coasts
GSCI 4050W. Geoscience and Society
GSCI 4110. Sedimentology
GSCI 4130. Geomicrobiology
GSCI 4735. Introduction to Ground-Water Hydrology

*History (HIST)*  
HIST 2206. History of Science  
HIST 3540. American Environmental History  
HIST 3542. New England Environmental History

*Journalism (JOUR)*  
JOUR 3046. Environmental Journalism

*Landscape Architecture (LAND)*  
LAND 3230W. Environmental Planning and Landscape Design

*Marine Sciences (MARN)*  
MARN 2002. Marine Sciences I  
MARN 2060. Introduction to Coastal Meteorology  
MARN 3000. The Hydrosphere and Global Climate  
MARN 3001. Marine Sciences II  
MARN 3003Q. Environmental Reaction and Transport  
MARN 3012. Marine Invertebrate Biology  
MARN 3015. Molecular Approaches to Biological Oceanography  
MARN 3016. Marine Microbiology  
MARN 3017. Plankton Ecology  
MARN 3030. Coastal Pollution and Bioremediation  
MARN 3060. Coastal Circulation and Sediment Transport  
MARN 3061. Environmental Fluid Dynamics  
MARN 3230. Beaches and Coasts  
MARN 3505. Remote Sensing of Marine Geography  
MARN 3801W. Marine Sciences and Society  
MARN 3811. Seminar on Marine Mammals  
MARN 4001. Measurement and Analysis in Coastal Ecosystems  
MARN 4002. Science and the Coastal Environment  
MARN 4010. Biological Oceanography  
MARN 4018. Ecology of Fishes  
MARN 4030W. Chemical Oceanography  
MARN 4050. Geological Oceanography  
MARN 4060. Physical Oceanography  
MARN 4066. River Influences on the Marine Environment  
MARN 4160. Scientific Diving

*Mathematics (MATH)*  
MATH 2110Q. Multivariable Calculus  
MATH 2130Q. Honors Multivariable Calculus
MATH 2141Q-2142Q. Advanced Calculus I, II
MATH 2143Q-2144Q. Advanced Calculus III, IV
MATH 2210Q. Applied Linear Algebra
MATH 2410Q. Elementary Differential Equations
MATH 2420Q. Honors Differential Equations

*Molecular and Cell Biology (MCB)*
MCB 2000. Introduction to Biochemistry
MCB 2210. Cell Biology
MCB 2225. Cell Biology Laboratory
MCB 2410. Genetics
MCB 2610. Fundamentals of Microbiology
MCB 3007. Introduction to Biophysical Chemistry
MCB 3010. Biochemistry
MCB 3201. Gene Expression
MCB 3210. Molecular Endocrinology
MCB 3211. Cancer Cell Biology and Genetics
MCB 3219. Developmental and Regenerative Biology
MCB 3246. Virology
MCB 3412. Genetic Engineering and Functional Genomics
MCB 3413. Concepts of Genetic Analysis
MCB 3421. Introduction to Molecular Evolution and Bioinformatics
MCB 3602W. Introduction to Bioinformatic Tools for Microbial Genome Annotation
MCB 3617. Molecular Biology and Genetics of Prokaryotes
MCB 3633. Pathogenic Microbiology
MCB 3637. Practical Methods in Microbial Genomics
MCB 4008. Techniques of Biophysical Chemistry
MCB 4009. Structure and Function of Biological Macromolecules
MCB 4026W. Advanced Biochemistry Laboratory
MCB 4211. Basic Immunology
MCB 4601. Physiology of Archaea and Bacteria
MCB 4624. Experiments in Bacterial Genetics

*Natural Resources and the Environment (NRE)*
NRE 2000. Introduction to Geomatics
NRE 2010. Natural Resources Measurements
NRE 2215. Introduction to Water Resources
NRE 2345. Introduction to Fisheries and Wildlife
NRE 2415. Dendrology
NRE 2455. Forest Ecology
NRE 2600. Global Sustainable Natural Resources
NRE 3000. Human Dimensions of Natural Resources
NRE 3105. Wetlands Biology and Conservation
NRE 3115. Air Pollution
NRE 3125. Watershed Hydrology
NRE 3145. Meteorology
NRE 3146. Climatology
NRE 3155. Water Quality Management
NRE 3201. Conservation Law Enforcement
NRE 3205. Stream Ecology
NRE 3245. Environmental Law
NRE 3265. Sustainable Urban Ecosystems
NRE 3335. Wildlife Management
NRE 3345. Wildlife Management Techniques
NRE 3345W. Wildlife Management Techniques
NRE 3365. Private Lands Wildlife Management
NRE 3500. Exurban Silviculture
NRE 3535. Remote Sensing of the Environment
NRE 3674. Introduction to Environmental and Natural Resources of China
NRE 3675. Environmental and Natural Resources of China
NRE 4000W. Natural Resources Planning and Management
NRE 4135. Introduction to Ground-Water Hydrology
NRE 4165. Soil and Water Management and Engineering
NRE 4170. Climate-Human-Ecosystem Interactions
NRE 4335. Fisheries Management
NRE 4340. Environmental Toxicology
NRE 4370. Population Dynamics
NRE 4475. Forest Management
NRE 4535. Remote Sensing Image Processing
NRE 4544. Application of Surveying for Natural Resources
NRE 4545. Geodesy
NRE 4575. Natural Resource Applications of Geographic Information Systems
NRE 4601. Current Topics in Environmental and Natural Resources – Honors
NRE 4665. Natural Resources Modeling

Nutritional Sciences (NUSC)
NUSC 2200. Nutrition and Human Development

Philosophy (PHIL)
PHIL 2170W. Bioethics and Human Rights in Cross-Cultural Perspective
PHIL 3216. Environmental Ethics
PHIL 3216W. Environmental Ethics

Physics (PHYS)
PHYS 3101. Mechanics I
PHYS 3102. Mechanics II
Plant Science (PLSC/SPSS)
PLSC 2100. Environmental Sustainability of Food Production in Developed Countries
PLSC 2500. Principles and Concepts of Agroecology
PLSC 3055. Genetically Engineered Crops from Farm to Fork
PLSC 3210. Molecular Laboratory Technology
PLSC 3230. Biotechnology – Science, Application, Impact, Perception
PLSC 3240. Plant Biotechnology
PLSC 3250. Plant Gene Transfer Techniques
PLSC 3810. Fundamentals of Plant Pathology
PLSC 3820. Ecology and Control of Weeds
PLSC 3830. Insect Pests of Ornamentals and Turf
PLSC 3840. Integrated Pest Management
PLSC 4210. Plant Physiology: How Plants Work
PLSC 4215. Plant Physiology Lab: Investigations into How Plants Work

Physiology and Neurobiology (PNB)
PNB 2250. Animal Physiology
PNB 2264-2265. Human Physiology and Anatomy
PNB 2274-2275. Enhanced Human Physiology and Anatomy
PNB 3251. Biology of the Brain
PNB 3252. Physiological Model Systems
PNB 3260. Stem Cell Biology
PNB 3262. Mammalian Endocrinology
PNB 3263WQ. Investigations in Neurobiology
PNB 3264W. Molecular Principles of Physiology
PNB 3265. Comparative Endocrinology
PNB 3270. Molecular Endocrinology
PNB 3275. Biology of Synaptic Transmission
PNB 3276. Molecular Neuroanatomy
PNB 3340. Non-coding RNAs in Human Physiology and Disease
PNB 3350. Membrane Transport in Health and Disease
PNB 3500. Cardiorespiratory Physiology
PNB 3700. Sensory Physiology
PNB 4162. Neuroethology

Political Science (POLS)
POLS 3209. Sustainable Energy in the 21st Century
POLS 3412. Global Environmental Politics

Psychological Sciences (PSYC)
PSYC 2200. Physiological Psychology
PSYC 2500. Learning
PSYC 3104. Environmental Psychology
PSYC 3200. Introduction to Behavioral Genetics
PSYC 3200W. Introduction to Behavioral Genetics
PSYC 3253. Sensory Neuroscience Laboratory
PSYC 3270. Current Topics in Behavioral Neuroscience

Public Health (PUBH)
PUBY 3001. Introduction to Epidemiology

Pathobiology and Veterinary Science (PVS)
PVS 3100. Histologic Structure and Function
PVS 3201. Principles of Animal Virology
PVS 3201W. Principles of Animal Virology
PVS 3341. Pathobiology of the Avian Species
PVS 3501. Diagnostic Techniques for the Biomedical Sciences
PVS 3700. Emerging Infectious Diseases
PVS 4300. Principles of Pathobiology

Speech, Language and Hearing Sciences (SLHS)
SLHS 2203. Anatomy and Physiology of Speech and Hearing

Sociology (SOCI)
SOCI 2709W. Society and Climate Change
SOCI 3407/W. Energy, Environment, and Society
SOCI 3971/W. Population

Soil Science (SOIL)
SOIL 2120. Environmental Soil Science
SOIL 2125. Soils Lab
SOIL 3410. Soil Chemistry Components
SOIL 3620. Soil Fertility
SOIL 4420. Soil Chemistry Processes

Statistics (STAT)
STAT 2215Q. Introduction to Statistics II
STAT 3025Q. Statistical Methods (Calculus Level I)
STAT 3115Q. Analysis of Experiments
STAT 3375Q. Introduction to Mathematical Statistics I
STAT 3445. Introduction to Mathematical Statistics II
STAT 3515Q. Design of Experiments
STAT 3675Q. Statistical Computing
STAT 3965. Elementary Stochastic Processes
STAT 4525. Sampling Theory
STAT 4625. Introduction to Biostatistics
STAT 4675. Probability and Statistics Problems
STAT 4825. Applied Time Series
STAT 4875. Nonparametric Methods

*Women’s Gender, and Sexuality Studies (WGSS)*
WGSS 2105/W. Gender and Science.