Biological and Environmental Majors Available at the UW

University of Washington/Undergraduate Gateway Center
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Admission requirements are subject to change. For the most current information, see www.washington.edu/uaa/gateway/advising/majors/majoff.php or contact the department adviser: www.washington.edu/uaa/gateway/advising/about/departments.php.

Majors with ***open admission*** can be declared at any time by students whose GPA is at least 2.0. Majors with ***minimum admission requirements*** have set requirements, such as completing 10 credits in the department with a GPA of 2.5. In general, these majors admit all applicants who meet the minimum admission requirements, with no further screening or selection. Majors with ***competitive admission*** have admission requirements and a selective screening; they often have an application deadline, and may require test scores, portfolios, auditions, letters of recommendation, and/or interviews. Completion of the admission requirements does not guarantee admission to competitive majors. Some majors admit only once per year. Consult an adviser.

major	description	admission requirements	comments
Aquatic and Fishery Sciences	The biology, ecology, conservation, management, and utilization of aquatic animals.	***Open admission.*** 2.00 GPA.	B.S. degree only. Supporting coursework required in math, general and organic chemistry, biology, and physics.
Atmospheric Sciences	Composition and structure of the atmosphere, atmospheric chemistry, weather analysis and prediction.	***Open admission.*** 2.00 GPA.	B.S. degree only.
Biology	The study of living organisms. Cell and molecular processes, development, organismal physiology and morphology, natural history, evolution, conservation, and ecology.	***Minimum admission requirements.*** BIOL 180 with minimum 2.5 grade; or BIOL 180, 200, 220 with minimum 2.00 GPA in the three courses. In addition, minimum 2.00 GPA for all required chemistry, physics, mathematics, and biological sciences courses already completed.	B.A. in General Biology. B.S. degree with six options: General Biology; Ecology and Evolutionary Biology; Environmental and Conservation Biology; Molecular, Cellular, and Developmental Biology; Physiology; and Plant Biology. Supporting coursework required in math; general, organic, and physical chemistry; and physics.

Civil and Environmental Engineering	The planning, design, construction, and management of facilities such as airports, buildings, bridges, dams, water and sewage systems, harbors, and highways. Control and reduction of air and water pollution.	***Competitive admission***. MATH 124, 125, 126, 308; CHEM 142; PHYS 121, 122; 5 cr English comp; AMATH 301 or CSE 142; AA 210; CEE 220; ME 230. Minimum 2.0 in each prerequisite course; minimum 2.50 average in prerequisites.	
Community, Environment, and Planning	The interdisciplinary study of communities, the analysis of natural and built environments, and the theory and practice of planning.	***Competitive admission.*** 90 credits, including CEP 200 (recommended), 5 cr English comp, 5 cr Q/SR (calculus recommended), 20 cr VLPA, 20 cr I&S, 20 cr NW, 10 cr W courses.	Admission once/year. Students progress through the major in learning communities of 17 students each. Commitment, personal investment, and strong teamwork skills required.
Earth and Space Sciences	Study of the earth, its environment, its origin, and the processes by which it has been transformed and reconstituted through time.	***Open admission.*** 2.00 GPA.	B.A. and B.S.: supporting coursework required in math, general chemistry, and physics. B.S. offers standard, biology, environmental earth sciences, and physics options.
Environmental Health	Control of environmental conditions affecting human health; epidemiology and toxicology.	***Competitive admission.*** 90 credits, including 5 credits English composition; MATH 124 or 144 or QSCI 291; CHEM 142, 152, 162; CHEM 237, 238, 239 (or 223 and 224); BIOL 180, 200, 220. Minimum 2.50 GPA; minimum 2.0 grade in each BIOL and CHEM course.	
Environmental Science and Resource Management	Management, stewardship, and restoration of both wildlands and human-inhabited systems; resource management and assessment.	***Open admission.*** 2.00 GPA.	B.S. degree only. Supporting coursework required in math, chemistry, and biology.

Environmental Studies	Environmental studies from natural science, historical, socioeconomic, legal, political, and ethical perspectives. Local, regional, and global issues.	***Open admission.*** 2.00 GPA.	B.A. degree only. Supporting coursework required in biology, chemistry, and statistics.
Landscape Architecture	History and contemporary concepts of landscape design.	***Competitive admission.*** 90 credits, including L ARCH 300; one from L ARCH 352, 353, 361; 5 credits English composition; 5 credits Q/SR; 20 credits each VLPA (drawing or painting course recommended), I&S, and NW (including ESS 101 and one of the following: BIOL 116, 117 or 317); 10 credits W courses.	Admission once per year. Portfolio and letters of recommendation required. 225 credits required. No L ARCH courses except 300 count toward Areas of Knowledge.
Oceanography	The physical, geological, chemical, and biological processes in the ocean and the interactions of the ocean with the earth, the biosphere, and the atmosphere.	***Open admission.*** 2.00 GPA.	B.A. and B.S. Supporting coursework required in math, general chemistry, physics, biology, and earth and space sciences.
Paper Science and Engineering	Pulping and papermaking techniques, engineering principles of papermaking, management and business principles in an industry setting.	***Competitive admission***. MATH 124, 125, 126, 307; CHEM 142, 152, 162, 237; PHYS 121, 122; 5 cr English comp; CHEM E 260. Minimum 2.50 GPA in prerequisites.	B.S. degree only.