

## COMPARISON OF ANIMAL-RELATED MAJORS

Major	<b>AGRICULTURAL &amp; ENVIRONMENTAL EDUCATION</b>	<b>ANIMAL BIOLOGY</b>	<b>ANIMAL SCIENCE</b>	<b>ANIMAL SCIENCE &amp; MANAGEMENT</b>	<b>BIOLOGICAL SCIENCES</b>
Focus	DOMESTIC ANIMALS AND OTHER FOCUS DEPTHS	ALL TYPES OF ANIMALS – RESEARCH <b>SENIOR PROJECT REQUIRED</b>	DOMESTIC (COMPANION, PRODUCTION) AND CAPTIVE ANIMALS	DOMESTIC & CAPTIVE ANIMALS WITH BUSINESS MANAGEMENT	BIOLOGY RELATED SUBJECTS INCLUDING MICROBIOLOGY, NBP, ET CETERA.
Description	The Agricultural and Environmental Education major instructs students in both the natural and social sciences. The program's focus on real-world activities and hands-on training prepares students for careers that merge the social and natural sciences in agricultural and environmental contexts. Graduates of this program are prepared to enter into teaching credential programs at the masters level.	The Animal Biology major offers students training in the biological and natural sciences as they apply to animals. The major covers the basic biological sciences that explain animal evolution, systematics, ecology, physiology, and molecular biology. Emphasis is on biological principles that can be used in research or in solving societal problems associated with animals in agriculture, urban areas or natural environments.	The Animal Science major is devoted to the sciences central to understanding the biological function of domestic and captive animals, their care, management, and utilization by people for food, fiber, companionship and recreation. This major takes an integrated approach to the study of animal behavior, reproduction, growth, lactation, molecular biology, and many other aspects of animal biology.	The Animal Science and Management major offers students training in the fields of animal science, marketing, economics, and accounting. Graduates of this interdisciplinary major will be well positioned to adjust to our rapidly changing world and job market.	The Biological Sciences major is broad in concept, spanning numerous core disciplines of biology. The B.S. program features an area of emphasis in one of the following at the upper division level: Evolution and Ecology; Microbiology; Molecular and Cellular Biology; and Neurobiology, Physiology and Behavior. The A.B. program is designed for students interested in teaching biology at the secondary school level. It emphasizes biological diversity, evolution, and ecology.
Requirement Comparison	BIS 2A-2B	BIS 2A-2C	BIS 2A-2C	BIS 2A-2C	BIS 2A-2C
	CHE 2A-2B	CHE 2A-2C	CHE 2A-2B	CHE 2A-2B	CHE 2A-2C
	N/A	CHE 8A-8B or 118A-118B	CHE 8A-8B or 118A-118B	CHE 8A-8B or 118A-118B	CHE 8A-8B or 118A-118C
	MAT 16A-16B or 17A-17B or 21A-21B	MAT 16A-16C or 17A-17C or 21A-21C	MAT 16A-16B or 17A-17B or 21A-21B	MAT 16A-16C or 17A-17C or 21A-21C	MAT 17A-17C, or MAT 21A-21B, (21C recommended)
	PHY 7A-7B or PHY 1A,1B, and 10C	PHY 7A-7C	N/A	N/A	PHY 7A-7C
	N/A	STAT 13 or STA 100 or PLS 120	STA 100 or PLS 120	STA 100 or STA 103 or PLS 120	STA 100
	<a href="mailto:asac@ucdavis.edu">asac@ucdavis.edu</a>	<a href="mailto:abi-advising@ucdavis.edu">abi-advising@ucdavis.edu</a>	<a href="mailto:asac@ucdavis.edu">asac@ucdavis.edu</a>	<a href="mailto:asac@ucdavis.edu">asac@ucdavis.edu</a>	<a href="mailto:cbsundergrads@ucdavis.edu">cbsundergrads@ucdavis.edu</a>

\*Students can apply to veterinary school regardless of major\*

## COMPARISON OF ANIMAL-RELATED MAJORS

Major	ENTOMOLOGY	EVOLUTION, ECOLOGY & BIODIVERSITY	GLOBAL DISEASE BIOLOGY	MARINE & COSTAL SCIENCES	SUSTAINABLE AGRICULTURE & FOOD SYSTEMS	WILDLIFE, FISH & CONSERVATION BIOLOGY
Focus	INSECTS AND KIN	MECHANISMS AND THEORY OF EVOLUTION AND ECOLOGY IN ORGANISMS	DISEASE AND ITS RELEATIONSHIP TO PEOPLE, ANIMALS, AND THE ENVIRONMENT	MARINE ORGANISMS	AGRICULTURE AND ECOLOGY, FOOD AND SOCIETY, AND ECONOMIC AND POLICY	NON-DOMESTIC ANIMALS, FISH, EXOTIC SPECIES, CONSERVATION
Description	The Entomology major is a general biological curriculum of interest to students intrigued by insects, their diversity, and biology. Areas of emphasis include: agricultural entomology, behavior, ecology, insects affecting human and animal health, natural history, and physiology.	The Evolution and Ecology major offers students an opportunity to learn about the diversity of life on Earth including diversity in genes, physiology, shapes, sizes, and behaviors. This major prepares students for careers in conservation biology, health sciences, science education, and research.	The Global Disease Biology major allows students to study disease and its relationship to the health of people, animals, and the environment. This major instills students with the experiences necessary to excel within professions related global health, the environment, food safety and security, biological safety and health policy.	The Marine and Coastal Science major focuses on the interdisciplinary nature of marine sciences by exposing students to core, breadth, and focus area courses in the discipline, in addition to a strong foundation of science preparatory material.	The Sustainable Agriculture and Food Systems major is designed to allow students to develop the knowledge required for working within food systems. The program draws from both the natural and social sciences to prepare graduates in interdisciplinary and systems-based thinking that allows them to excel in agricultural and food systems professions. <b>The following requirements are only for the Agriculture and Ecology track.</b>	The Wildlife, Fish, and Conservation Biology major deals with the relationships between human needs and wildlife needs for shelter and habitat preservation. This major provides excellent preparation for those interested in entering professional careers within wildlife and conservation biology.
Requirement Comparison	BIS 2A-2C	BIS 2A-2C	BIS 2A-2C	BIS 2A-2C	BIS2A-2B	BIS 2A-2C
	CHE2A-2B	CHE 2A-2C	CHE 2A-2C	CHE 2A-2C	CHE2A-2B	CHE 2A-2B
	CHE 8A-8B or CHE 118A-118B	CHE 8A-8B or 118A-118C	CHE 8A-8B or CHE 118-118B	CHE 8A-8B only for Marine Ecology and Organismal Biology focus	N/A	CHE 8A-8B or 118A-118B
	MAT 16A-16C or 17A-17C, or 21A-21C	MAT 17A-17C or 21A-21B (21C rec.)	MAT 17A-17C or 21A-21C	MAT 17A-17C or 21A-21C	MAT 16A-16B	MAT 16A-16B
	PHY 1A-1B	PHY 7A-7C	PHY 7A-7B	PHY 7A-7C	PHY 1A	PHY 1A-1B
	STA 13 or STA 32 or STA 100 or PLS 21 or PLS 120	STA 100 or STA 102 or STA 130A-130B	STA 13 or STA 100 or PLS 120	STA 100	STA 100 or PLS 120	STA 100 or PLS 120
<a href="mailto:bafleming@ucdavis.edu">bafleming@ucdavis.edu</a>	<a href="mailto:cbsundergrads@ucdavis.edu">cbsundergrads@ucdavis.edu</a>	<a href="mailto:gdb-advise@ucdavis.edu">gdb-advise@ucdavis.edu</a>	<a href="mailto:mcsadvisers@ucdavis.edu">mcsadvisers@ucdavis.edu</a>	<a href="mailto:lbrooks@ucdavis.edu">lbrooks@ucdavis.edu</a>	<a href="mailto:wfcbadvising@ucdavis.edu">wfcbadvising@ucdavis.edu</a>	

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