

tion of the appropriate methods of analysis of atmospheric and oceanic observations. Conservation of mass, energy and momentum. Introduction to the range of climate simulations. Offered in alternate years.—I, (I.) Weare

250. Meso-Scale Meteorology (3)

Lecture—3 hours. Prerequisite: graduate standing, course 150, a course in partial differential equations; or consent of instructor. The study of weather phenomena with horizontal spatial dimensions between 2.5 and 2500 kilometers. Methods of observational study and numerical modeling of the structure and temporal behavior of these weather systems. Offered in alternate years.—I, Chen

255. Numerical Modeling of the Atmosphere (4)

Lecture—2 hours; laboratory—6 hours. Prerequisite: course 121B and Engineering 5; course 150 recommended. Principles of numerical modeling of the dynamic, thermodynamic and physical processes of the atmosphere. Hands-on experiments on model development using the shallow water equations and the primitive equations. Operational forecast models. Offered in alternate years.—(I.) Chen

260. Atmospheric Chemistry (3)

Lecture—3 hours. Prerequisite: course 160. Chemistry and photochemistry in tropospheric condensed phases (fog, cloud, and rain drops and aerosol particles). Gas-drop and gas-particle partitioning of compounds and effects of reactions in condensed phases on the fates and transformations of tropospheric chemical species. Offered in alternate years.—III, Anastasio

270A-G. Topics in Atmospheric Science (1-3)

Discussion—1-3 hours. Applications and concepts in (A) Meteorological Statistics; (B) Computer Modeling of the Atmosphere; (C) Design of Experiments and Field Studies in Meteorology; (D) Solar and Infrared Radiation in the Atmosphere; (E) Aerosol and Cloud Physics; (F) Atmospheric Chemistry; (G) General Meteorology.—I, II, III, (I, II, III.)

280A. Air Quality Policy in the Real World (4)

Project. Prerequisite: consent of instructor; Atmospheric Science 149 or Engineering: Civil and Environmental 149, and Engineering: Civil and Environmental 242 or equivalent. In-depth investigation of an air quality problem with a team and mentor from government or industry. Science, engineering and policy will be involved. Findings will be presented orally and in writing. Not offered every year. (Deferred grading only, pending completion of sequence.)—II, III, (II, III.)

280B. Air Quality Policy in the Real World (4)

Project. Prerequisite: course 280A; consent of instructor. In-depth investigation of an air quality problem with a team and mentor from government or industry. Science, engineering and policy will be involved. Findings will be presented orally and in writing. (Deferred grading only, pending completion of sequence.) Not offered every year.—II, III, (II, III.)

290. Seminar (1)

Seminar—1 hour. Prerequisite: graduate standing in Atmospheric Science or related field. Current developments in selected areas of atmospheric research. Topics will vary according to student and faculty interests. (S/U grading only.)—I, II, III, (I, II, III.)

291A-F. Research Conference in Atmospheric Science (1-3)

Lecture/discussion—1-3 hours. Prerequisite: consent of instructor. Review and discussion of current literature and research in: (A) Air Quality Meteorology; (B) Biometeorology; (C) Boundary Layer Meteorology; (D) Climate Dynamics; (E) General Meteorology; (F) Atmospheric Chemistry. May be repeated up to a total of 6 units per segment. (S/U grading only.)—I, II, III, (I, II, III.)

298. Group Study (1-5)

Prerequisite: graduate standing and consent of instructor. (S/U grading only.)

299. Research (1-12)

Prerequisite: graduate standing and consent of instructor. (S/U grading only.)

Professional Course

396. Teaching Assistant Training Practicum (1-4)

Prerequisite: graduate standing. May be repeated for credit. (S/U grading only.)—I, II, III, (I, II, III.)

Atmospheric Science (A Graduate Group)

Bryan C. Weare, Ph.D., Chairperson of the Group (530) 752-3445

Group Office. 141 Hoagland Hall, 1152 Plant and Environmental Sciences Building, (530) 752-1669; <http://atm.ucdavis.edu>

Faculty

Cort Anastasio, Ph.D., Associate Professor
Christopher Cappa, Ph.D., Assistant Professor
Shu-Hua Chen, Ph.D., Associate Professor
Ian Faloona, Ph.D., Assistant Professor
Robert Flochini, Ph.D., Professor
Richard Grotjahn, Ph.D., Professor
Levent Kavvas, Ph.D., Professor
Michael J. Kleeman, Ph.D., Professor
John Largier, Ph.D., Professor
Terrence R. Nathan, Ph.D., Professor
Debbie Niemeier, Ph.D., Professor
Kyaw Tha Paw U, Ph.D., Professor
Ruth Reck, Ph.D., Professor
Susan Ustin, Ph.D., Professor
Bryan Weare, Ph.D., Professor
Anthony Wexler, Ph.D., Professor
Bruce White, Ph.D., Professor

Emeriti Faculty

Thomas A. Cahill, Ph.D., Professor Emeritus
John Carroll, Ph.D., Professor Emeritus
Daniel P.Y. Chang, Ph.D., Professor Emeritus
Theodore Hsiao, Ph.D., Professor Emeritus
Roger Shaw, Ph.D., Professor Emeritus
Marlyn Shelton, Ph.D., Professor Emeritus

Affiliated Faculty

Lowell Ashbaugh, Ph.D., Associate Researcher
Steven S. Cliff, Ph.D., Research Engineer
Ann Dillner, Ph.D., Research Engineer
Richard L. Snyder, Ph.D., Lecturer (*Atmospheric Science*) and Specialist in Cooperative Extension

Graduate Study. The Graduate Group in Atmospheric Science offers both the M.S. and Ph.D. degree programs. A student may place emphasis on graduate work in one or more of the following fields: air quality meteorology, atmospheric chemistry, biometeorology, micrometeorology, numerical weather prediction, remote sensing, climate dynamics, large scale dynamics, and meso-scale meteorology. The diverse and extensive backgrounds of the faculty allow opportunities for interdisciplinary training and research.

Preparation. The Group encourages applications from all interested students with backgrounds in the physical or natural sciences. Basic qualifications for students entering the Atmospheric Science graduate program include mathematics to the level of vector calculus and differential equations, and one year of college-level physics. Flexibility may be allowed for students with high academic potential, but it is expected that deficiencies in preparatory material and in key undergraduate atmospheric science courses be completed within the first year of graduate study.

Graduate Adviser. C. Anastasio (*Land, Air, and Water Resources*) (530) 754-6095

Graduate Admissions Officer. S. S. Cliff (*Applied Science*) (530) 867-2037

Avian Medicine

See **Medicine and Epidemiology (VME)**, on page 506.

Avian Sciences

(College of Agricultural and Environmental Sciences)

Faculty. See under **Animal Science**, on page 141.

Master Adviser. F.A. Bradley

Advising Center for the major is located in 1202 Meyer Hall (530) 754-7915.

The Major Program

Avian Sciences is the study of birds and the ways in which they relate to and are useful to humans. The major combines the study of avian wildlife and their environments, production and marketing of domestic birds and eggs, caged exotic bird management, and basic and applied laboratory research on birds with a broad introduction to biological science.

The Program. The flexibility of the program and the close personal interaction between students, faculty, and specialists in the field give students a large role in selecting and designing their own course work. Students may specialize in a bachelor's program that qualifies them for a particular career or they may choose a program to meet other broader intellectual and cultural interests.

Internships and Career Alternatives. Independent study, undergraduate research, and internships are emphasized in the Avian Sciences program. Birds for laboratory or special study are housed within the main building as well as at the research farm and the experimental aviary. An Avian Sciences major has a variety of career options: health-oriented research, teaching biology, game bird production, domestic and foreign agricultural extension and advisory services, governmental agencies, or the domestic or exotic bird industries. A recent survey has shown that the majority of Avian Sciences graduates enter graduate school or are employed by the domestic bird industry. The remainder of the graduates were evenly distributed in the categories of professional schools, avian biology agencies, educational fields, and individual jobs indirectly associated with birds.

B.S. Major Requirements:

UNITS

English Composition Requirement0-8

See College requirement.

Preparatory Subject Matter61-73

At least 3 units from Avian Sciences 11, 13, 14L, 15L, 16L.....3-5
Biological Sciences 1A, 1B, 1C or 2A, 2B, 2C.....14-15
Chemistry 2A, 2B, 2C, 8A, 8B.....21
Plant Sciences 21 or Engineering Computer Science 15.....3-4
Mathematics 16A-16B-16C or 17A-17B-17C or 21A-21B-21C.....9-12
Physics 1A-1B or 7A-7B-7C.....6-12
One course from Statistics 13, 100, or Plant Sciences 1204

Breadth Subject Matter24

See General Education requirement.

Depth Subject Matter26

Animal Biology 102 and 103 or Biological Sciences 102, 103 and Nutrition 123, 123L.....10
Biological Sciences 1014
Avian Sciences 103, 1504
Neurobiology, Physiology, and Behavior 1015
Laboratory units in above listed subjects3

(Recommended courses include Animal Genetics 101; Animal Science 136, 137; Avian Sciences 160; Molecular and Cellular Biology 120L, 150L, 160L; or Neurobiology, Physiology, and Behavior 101L.)

Restricted Electives 28

Specialized courses related to avian species to supplement or expand depth subject matter courses. Courses must be approved by an adviser.

Unrestricted Electives 21-41

Total Units for the Degree 180

Minor Program Requirements:

UNITS

Avian Sciences 18

Choose one from Avian Sciences 11, 13, 14L, 15L, 16L 2-3
Choose remaining units from Avian Sciences 100, 103, 115, 121, 123, 149, 150, 160; Animal Science 143; Neurobiology, Physiology, and Behavior 117; Wildlife, Fish, and Conservation Biology 111, 136 15-16

Graduate Study. Further training is available through graduate or professional programs in animal physiology, genetics, nutrition, or veterinary medicine. The M.S. degree is offered in Avian Sciences. For details see under *Avian Sciences (A Graduate Group)*, on page 165. See also *Graduate Studies*, on page 104.

Related Courses. See Agricultural and Resource Economics 130; Animal Science 143; Food Science and Technology 120, 120L, 121; Molecular and Cellular Biology 150, 150L; Nutrition 123, 123L.

Advising for the major, minor, or the following courses is located in the Animal Science Advising Center in 1202 Meyer Hall (530) 754-7915.

Courses in Avian Sciences (AVS)

Lower Division Courses

11. Introduction to Poultry Science (3)

Lecture—3 hours; one field trip required. The mosaic of events that have tied poultry science to other scientific disciplines and poultry to humans. Poultry science techniques and production methods from the time of domestication to the present. GE credit: Sci-Eng, Wrt.—II. (II.) Bradley

13. Birds, Humans and the Environment (3)

Lecture—2 hours; discussion—1 hour; half-day field trip. Interrelationships of the worlds of birds and humans. Lectures, discussions, field trips and projects focus on ecology, avian evolution, physiology, reproduction, flight, behavior, folklore, identification, ecotoxicology and conservation. Current environmental issues are emphasized. GE credit: SciEng, Wrt.—I. (I.) King

14L. Management of Captive Birds (2)

Fieldwork—3 hours; lecture/discussion—1 hour. Prerequisite: consent of instructor. One weekly discussion and field trip to study practical captive management (housing, feeding, equipment, marketing, diseases). Visit facilities rearing birds such as commercial parrots, hobbyist exotics, ostrich, raptors, waterfowl, game birds, poultry and pigeons.

15L. Captive Raptor Management (2)

Laboratory—3 hours; independent study—3 hours; one field trip. Hands-on experience handling birds of prey. Students are taught all of the skills required to handle and care for raptors, including their husbandry, biology, habitat requirements, cage design, veterinary care, rehabilitation methods, research potential and long-term care requirements.—I. (I.)

16LA-16LB-16LC. Raptor Migration and Population Fluctuations (2-2-2)

Fieldwork—3 hours; discussion—1 hour; one Saturday field trip. Prerequisite: consent of instructor. Identify raptors; study effects of weather, crops, agricultural practices on fluctuations in raptor species and numbers. Familiarize with literature; design a

project; survey study sites; collect, computerize, analyze data; compare with previous years. Species, observations, emphasis are different each quarter.—III. (III.)

92. Internship in the Avian Sciences (1-12)

Internship—3-36 hours. Prerequisite: sophomore standing preferred; consent of instructor. Internship on and off campus in poultry, game birds or exotic bird production, management and research; or in a business, industry, or agency concerned with these entities. Compliance with Internship Approval form essential. (P/NP grading only.)

98. Directed Group Study (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

99. Special Study for Undergraduates (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

Upper Division Courses

100. Avian Biology (3)

Lecture—3 hours. Prerequisite: Biological Sciences 1A, 1B. Survey of avian natural history and study of the diversity, functional morphology, behavior, ecology and evolution of birds.—I. (I.) Weathers

103. Avian Development and Genetics (3)

Lecture—2 hours; laboratory—3 hours. Prerequisite: Biological Sciences 1A and 1B. Unique features of avian development and genetics. Development topics: gametogenesis, fertilization, pre- and post-ovipositional development, morphogenesis, sex differentiation, specialized organ systems, incubation, hatching. Genetic topics: genome organization, inheritance, sex determination, avian models. Laboratory exercises: embryology, genetics, model systems.—I. (I.) Delany

115. Raptor Biology (3)

Lecture—3 hours; two Saturday field trips. Prerequisite: Biological Sciences 1A or the equivalent. Study of birds of prey: classification, distribution, habits and habitats, migration, unique anatomical and physiological adaptations, natural and captive breeding, health and diseases, environmental concerns, conservation, legal considerations, rehabilitation, and falconry.—II. (II.)

121. Avian Reproduction (2)

Lecture—2 hours. Prerequisite: Biological Sciences 1A, 1B. Breeding cycles and reproductive strategies, egg and sperm formation, incubation, sexual development, imprinting, hormonal control of reproductive behavior and song. Species coverage includes wild and companion birds. Course has a physiological orientation. Offered in alternate years.—II. Millam

123. Management of Birds (3)

Lecture—3 hours. Prerequisite: Biological Sciences 1A, 1B. Captive propagation of birds, including reproduction, genetic management, health, feeding, artificial incubation, artificial insemination, and related legal aspects, including trade and smuggling. Emphasis on exotic species and the role of captive propagation in conservation. Offered in alternate years.—(II.) Millam

149. Egg Production Management (2)

Lecture—2 hours; one Saturday field trip required. Prerequisite: course 11 or the equivalent, or consent of instructor. Management of commercial table egg flocks as related to environment, nutrition, disease control, economics, housing, equipment, egg processing and raising replacement pullets. Offered in alternate years.—(III.)

150. Nutrition of Birds (1)

Lecture—1 hour. Prerequisite: Animal Biology 103 (may be taken concurrently). Principles of nutrition specific to avian species, including feedstuffs, feed additives, nutrient metabolism, energy systems, and nutritional support of egg production and growth. Use of computers for feed formulation to support production. Offered in alternate years.—(III.) Klasing

160. Designing and Performing Experiments in Avian Sciences (2)

Laboratory—6 hours. Prerequisite: course 100 or Wildlife, Fish, and Conservation Biology 111 or Evolution and Ecology 137 or consent of instructor. Experiments in current problems in avian biology. Introduction to experimental design. Students choose a project, design a protocol, perform an experiment and report their findings. May be repeated for credit with consent of instructor.—I, II, III. (I, II, III.)

170. Advanced Avian Biology (4)

Lecture/discussion—3 hours; project—1 hour. Prerequisite: course 100 or Evolution and Ecology 137 or Wildlife, Fish, and Conservation Biology 111. Ecology, behavior, functional morphology and life-history evolution of birds. Emphasis on the importance of body size as a principle determinant of most aspects of avian performance from lifespan to reproduction and species abundance. Analytical synthesis and critical thought emphasized. Offered in alternate years.—(III.) Weathers

190. Seminar in Avian Sciences (1)

Seminar—1 hour. Prerequisite: upper division standing in Avian Sciences and consent of instructor. May be repeated three times for credit. (P/NP grading only.)—I, III. (I, III.)

192. Internship in Avian Sciences (1-12)

Internship—3-36 hours. Prerequisite: completion of a minimum of 84 units; consent of instructor. Internship on and off campus in poultry, game birds or exotic bird production, management and research; or in a business, industry, or agency concerned with these entities. Compliance with Internship Approval form essential. (P/NP grading only.)

195. Topics in Current Research (1-3)

Lecture/discussion—variable. Hours will depend on instructor with the number of units being commensurate with time in class. Prerequisite: consent of instructor. Discussion of topics of current interest in avian sciences. May be repeated three times for credit.—I, II, III. (I, II, III.)

197T. Tutoring in Avian Sciences (1-3)

Tutorial—1-3 hours. Prerequisite: Avian Sciences or related major, advanced standing, consent of instructor. Tutoring of students in lower division avian sciences courses; weekly conference with instructors in charge of courses; written critiques of teaching procedures. (P/NP grading only.)

198. Directed Group Study (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

199. Special Study for Advanced Undergraduates (1-5)

Prerequisite: consent of instructor. (P/NP grading only.)

Graduate Courses

290. Seminar (1)

Seminar—1 hour. Reports and discussions of recent advances and selected topics of current interest in avian genetics, physiology, nutrition, and poultry technology.—I, III. (I, III.)

290C. Research Conference (1)

Discussion—1 hour. Prerequisite: graduate standing and consent of instructor. Major professors lead research discussions with their graduate students. Research papers are reviewed and project proposals presented and evaluated. Format will combine seminar and discussion. (S/U grading only.)—I, II, III. (I, II, III.)

297T. Supervised Teaching in Avian Sciences (1-4)

Tutoring—1-4 hours. Prerequisite: graduate standing and consent of instructor. Tutoring of students in lower, upper division, and graduate courses in Avian Sciences; weekly conference with instructor in charge of course; written critiques of teaching methods in lectures and laboratories. (S/U grading only.)

298. Group Study (1-5)

Prerequisite: consent of instructor.

299. Research (1-12)

Prerequisite: consent of instructor. (S/U grading only.)

Avian Sciences (A Graduate Group)

John M. Eadie, Ph.D., Chairperson of the Group

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Faculty

- Dan Anderson, Ph.D., Professor
(Wildlife, Fish, and Conservation Biology)
- Francine A. Bradley, Ph.D., Specialist in
Cooperative Extension and Lecturer
(Animal Science)
- C. Christopher Calvert, Ph.D., Professor
(Animal Science)
- Carol J. Cardona, D.V.M., Ph.D., ACPV, Associate
Veterinarian; Associate Extension Specialist
(Population Health and Reproduction, School of
Veterinary Medicine)
- Mary E. Delany, Ph.D., Professor (Animal Science)
- John M. Eadie, Ph.D., Professor
(Wildlife, Fish, and Conservation Biology, Animal
Science)
- Holly B Ernest, D.V.M., Ph.D., Assistant Professor in
Residence: Wildlife Geneticist
(Veterinary Genetics Laboratory and Population
Health and Reproduction, School of Veterinary
Medicine)
- Thomas P. Coombs-Hahn, Ph.D., Associate Professor
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- Michelle Hawkins, V.M.D., ABVP, Assistant Professor
(Medicine and Epidemiology, School of
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- Kirk C. Klasing, Ph.D., Professor (Animal Science)
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- Joy A. Mench, Ph.D., Professor (Animal Science)
- James R. Millam, Ph.D., Professor (Animal Science)
- Lisa A. Tell, D.V.M., Professor
(Medicine and Epidemiology, School of
Veterinary Medicine)
- Barry W. Wilson, Ph.D., Professor
(Animal Science, Environmental Toxicology)

Emeriti Faculty

- Ursula K. Abbott, Ph.D., Professor Emerita
- Hans Abplanalp, Ph.D., Professor Emeritus
- Ralph A. Ernst, Ph.D., Specialist Emeritus
- Peter Marler, Ph.D., Professor Emeritus

Graduate Study. The Graduate Group in Avian Sciences offers the M.S. degree program to students who wish to pursue specialized advanced work on avian species. Specializations students may choose include behavior, nutrition, physiology, reproduction, pathology, immunology, toxicology, food chemistry, management, ecology, genetics, comparative incubation, environmental physiology, and cellular and developmental studies using wild and domestic birds as experimental animals. Both master's degree plans, thesis or comprehensive examination, are available.

Preparation. Applicants should have undergraduate preparation in a field appropriate to the course of study selected, including courses in most of the following subjects: general biology, general and organic chemistry, biochemistry, avian biology, genetics, nutrition, physiology, and statistics.

Graduate Adviser. Consult program office.

Biochemistry and Molecular Biology

See **Molecular and Cellular Biology**, on page 406; **Biochemistry and Molecular Biology (A Graduate Group)**, on page 165.

Biochemistry and Molecular Biology (A Graduate Group)

JoAnne Engebrecht, Ph.D., Chairperson of the Group

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Faculty

- Steffen Abel, Ph.D., Associate Professor
(Plant Sciences)
- James Ames, Ph.D., Associate Professor (Chemistry)
- Peter Armstrong, Ph.D., Professor
(Molecular and Cellular Biology)
- Enoch Baldwin, Ph.D., Associate Professor
(Molecular and Cellular Biology)
- Kenneth A Beck, Ph.D., Associate Professor
(Cell Biology and Human Anatomy)
- Diane Beckles, Ph.D., Assistant Professor
(Plant Sciences)
- Alan Bennett, Ph.D., Professor (Plant Sciences)
- Charles Bevins, Ph.D., Professor
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- Linda F. Bisson, Ph.D., Professor
(Viticulture and Enology)
- Eduardo Blumwald, Ph.D., Professor (Plant Sciences)
- Sue Bodine, Ph.D., Professor
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- Gino A. Cortopassi, Ph.D., Professor
(Molecular Biosciences)
- Michael E. Dahms, Ph.D., Professor
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- Sheila David, Ph.D., Professor (Chemistry)
- Scott Dawson, Ph.D., Assistant Professor
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- William DeBello, Ph.D., Assistant Professor
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- Katayoon Dehesh, Ph.D., Professor (Plant Biology)
- Wenbin Deng, Ph.D., Assistant Professor
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- Michael S. Denison, Ph.D., Professor
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- Elva Diaz, Ph.D., Assistant Professor
(Medical Pharmacology and Toxicology)
- Bruce Draper, Ph.D., Assistant Professor
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- JoAnne Engebrecht, Ph.D., Associate Professor
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- Carol Erickson, Ph.D., Professor
(Molecular and Cellular Biology)
- Marilynn E. Etzler, Ph.D., Professor
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- Robert H. Fairclough, Ph.D., Associate Professor
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- Peggy Farnham, Ph.D., Professor
(Medical Pharmacology and Toxicology)
- Oliver Fiehn, Ph.D., Associate Professor
(Genome Center and Bioinformatics)
- Andrew Fisher, Ph.D., Associate Professor
(Chemistry)
- Paul G. FitzGerald, Ph.D., Professor
(Cell Biology and Human Anatomy)
- J. David Furlow, Ph.D., Associate Professor
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- Charles S. Gasser, Ph.D., Professor
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- Angela Gelli, Ph.D., Assistant Professor
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- Paramita Ghosh, Ph.D., Assistant Adjunct Professor
(Urology)
- Cecilia Giulivi, Ph.D., Professor
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- Tzipora Goldkorn, Ph.D., Professor
(Internal Medicine)
- Qizhi Gong, Ph.D., Assistant Professor
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- Paul Hagerman, Ph.D., Professor
(Biochemistry and Molecular Medicine)
- Nobuko Hagiwara, Ph.D., Assistant Professor
(Internal Medicine: Cardiovascular Medicine)
- Fawaz Hajj, Ph.D., Assistant Professor (Nutrition)
- Bruce D. Hammock, Ph.D., Professor (Entomology)
- John H. Harada, Ph.D., Professor (Plant Biology)
- Stacey L. Harmer, Ph.D., Assistant Professor
(Plant Biology)
- Jerry L. Hedrick, Ph.D., Professor (Animal Science)
Distinguished Graduate Mentoring Award
- Wolf-Dietrich Heyer, Ph.D., Professor (Microbiology)
- Neil Hunter, Ph.D., Assistant Professor
(Microbiology)
- Kentaro Inoue, Ph.D., Assistant Professor
(Plant Sciences)
- Clarence I. Kado, Ph.D., Professor
(Plant Pathology)
- Ken Kaplan, Ph.D., Associate Professor
(Molecular and Cellular Biology)
- Daniel Kliebenstein, Ph.D., Assistant Professor
(Plant Sciences)
- Ian Korf, Ph.D., Assistant Professor
(Molecular and Cellular Biology)
- Stephen C. Kowalczykowski, Ph.D., Professor
(Microbiology)
- Hsing-Jien Kung, Ph.D., Professor
(Cancer Center UCDMC)
- J. Clark Lagarias, Ph.D., Professor
(Molecular and Cellular Biology)
- Kit S. Lam, Ph.D., Professor
(Hematology—Oncology)
- Janine LaSalle, Ph.D., Professor
(Medical Microbiology and Immunology)
- Jerrold A. Last, Ph.D., Professor (Internal Medicine)
- Walter Leal, Ph.D., Professor (Entomology)
- Julie A. Leary, Ph.D., Professor
(Molecular and Cellular Biology)
- Noelle L'Etioile, Ph.D., Assistant Professor
(Center for Neuroscience)
- Su-Ju Lin, Ph.D., Assistant Professor (Microbiology)
- Yu-Fung Lin, Ph.D., Assistant Professor
(Physiology and Membrane Biology)
- Su Hao Lo, Ph.D., Associate Professor
(Orthopaedic Surgery)
- Angie Louie, Ph.D., Assistant Professor
(Biomedical Engineering)
- Paul Luciw, Ph.D., Professor (Pathology)
- Kimberley A. McAllister, Ph.D., Associate Professor
(Center for Neuroscience)
- Francis J. McNally, Ph.D., Associate Professor
(Molecular and Cellular Biology)
- Claude F. Meares, Ph.D., Professor (Chemistry)