NEW YORK STATE COLLEGE OF VETERINARY MEDICINE

ADMINISTRATION

Robert D. Phemister, dean

S. Gordon Campbell, associate dean for academic affairs

Neil L. Norcross, secretary of the college

John A. Lambert, assistant dean for administra-

John C. Semmler, assistant dean for public affairs

Marcia J. Sawyer, director of student affairs and admissions

Gloria R. Crissey, registrar, director of financial aid

DEPARTMENT CHAIRS

Anatomy: A. deLahunta

Avian and Aquatic Animal Medicine: B. Calnek

Clinical Sciences: D. Smith

Microbiology, Immunology, and Parasitology:

R. Avery

Pathology: B. Pauli Pharmacology: G. Sharp Physiology: D. Robertshaw

THE COLLEGE

The College of Veterinary Medicine offers a professional program that requires four years of full-time academic and clinical study of the normal and abnormal structure and function of the animal body and the diagnosis, treatment, and prevention of animal disease.

Graduates of the college receive the Doctor of Veterinary Medicine (D.V.M.) degree, which is recognized by licensing boards throughout the world. Graduates generally enter private practice or become engaged in one of the increasing number of other biomedical activities.

Admission requires a minimum of three years of college work, including specific prerequisite courses and experience. Applications must be filed approximately one year before the proposed matriculation date. The competition for admission is keen, since there are many more qualified applicants than can be admitted.

Graduate programs in veterinary research and postdoctoral training in clinical specialties are open to Doctors of Veterinary Medicine and some highly qualified holders of baccalaureate degrees and lead to the degree of Master of Science or Doctor of Philosophy.

More detailed information is contained in the Announcement of the New York State College of Veterinary Medicine, which may be obtained by writing to the college. *Note:* 500- and 600-level courses are open only to veterinary students except by written permission from the instructor.

ANATOMY

- 500 Gross Anatomy: Small Animal Fall.
- 501 Gross Anatomy: Large Animal Spring.
- 502 Microscopic Anatomy First year.
- 504 Neuroanatomy and Clinical Neurology First year.
- 505 Applied Anatomy Fall.
- 506 Applied Anatomy Spring.
- 507 Animal Development Fall.
- 508 Anatomy of the Fish and Bird Spring.
- 600 Special Projects in Anatomy Fall and spring.
- 601 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.
- 602 Advanced Clinical Neurology Fall.

AVIAN AND AQUATIC ANIMAL MEDICINE

- [255 Poultry Hygiene and Disease Spring.]
- 555 Avian Diseases Fall.
- 614 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.
- 630 Diseases of Aquarium Fish Spring.
- [631 Fish Health Management Spring.]
- 663 Veterinary Medicine in Developing Nations Spring.
- [671 Diseases of Aquatic Animals Spring.]
- 672 Aquavet I: Introduction to Aquatic Veterinary Medicine Mid-May to mid-June.
- 673 Aquavet II: Health Management in Confined Populations of Invertebrates and Fish Summer.
- 770 Advanced Work in Avian Diseases
 Fall and spring.
- 772 Advanced Work in Aquatic Animal Diseases Fall and spring.
- 773 Advanced Work in Avian Immunology Fall and spring.

CLINICAL SCIENCES

- 520 Preventive Medicine in Animal Health Management Spring.
- 545 Clinical Epidemiology Fall.
- 547 Practice Management Fall and spring.
- 548 Anesthesiology Fall.
- 561 Theriogenology I Spring.
- 562 Theriogenology II Fall.

- 563 Large Animal Medicine and Surgery Fall.
- 564 Large Animal Medicine and Surgery Spring.
- 566 Radiographic Techniques Fall.
- 567 Clinical Nutrition Fall.
- 568 Foundations of Clinical Science I Fall.
- 569 Foundations of Clinical Science II Spring.
- 570 Theriogenology Service Spring.
- 572 Senior Seminar Fall and spring.
- 574 Large Animal Surgery Service Fall and spring.
- 575 Ambulatory Service Fall and spring.
- 578 Clinical Anesthesia Fall and spring.
- 579 General Medicine and Surgery Spring.
- 580 Radiology Service Fall and spring.
- 581 Animal Nutrition Fall.
- 582 Large Animal Surgical Exercises
 Spring.
- 583 Small Animal Medicine and Surgery Fall.
- 584 Small Animal Medicine and Surgery Spring.
- 586 Small Animal Surgical Exercises Spring.
- 589 Small Animal Medicine Service Fall and spring.
- 591 Small Animal Surgery Service Fall and spring.
- 593 Ophthalmology Service Fall and spring.
- 594 Large Animal Medicine Service Fall and spring.
- 596 Opportunities in Veterinary Medicine Fall, spring, and summer.
- 598 Dermatology Service Fall and spring.
- 616 Research Opportunities in Veterinary Medicine Fall, spring, and summer.
- 664 Introductory Epidemiology Spring.
- 665 Advanced Epidemiology Fall.
- 675 Special Problems in Large Animal Medicine Fall and spring.
- 676 Special Problems in Large Animal Surgery Fall and spring.
- 677 Special Problems in Large Animal Obstetrics Fall and spring.
- 678 Bovine Embryo Transfer Spring.
- [679 Dairy Herd Management and Health Fall.]
- 680 Poisonous Plants Fall.
- [681 Horse Health Management Spring.]
- 683 Elementary Biostatistics Spring.
- 684 Horse Lameness Spring.
- 685 Introduction to Practice
 Management January.
- 686 Goats: Management and Diseases Spring.
- 688 Special Problems in Small Animal Medicine Fall and spring.
- [689 Special Problems in Small Animal Surgery Fall and spring.]

- 690 Veterinary Dermatology Spring.
- 691 Advanced Large Animal Internal Medicine Problems Spring.
- 692 Computers in Veterinary Medicine Spring.
- 694 Diseases of Common Exotic Pets Spring.
- 695 Advanced Equine Surgical Techniques Spring.
- 696 Basic and Therapeutic Horseshoeing Spring.
- 697 Advanced Techniques in Food Animal Surgery Spring.
- 766 Graduate Research Fall, spring, and summer.
- 768 Master's-Level Thesis Research Fall and spring.
- 769 Doctoral-Level Thesis Research Fall and spring.
- 782 Special Topics in Comparative Ophthalmology Fall.
- 799 Independent Studies in Epidemiology Fall and spring.

DIAGNOSTIC LABORATORY

- 531 Regulatory Medicine Spring.
- 611 Mastitis Spring.
- 700 Special Projects in Diagnostic Endocrinology Fall and spring.
- 701 Special Projects in Infectious Diseases Fall and spring.
- 702 Special Topics in Infectious Diseases Fall and spring.
- 703 Doctoral Level Thesis Research Fall and spring.
- 704 Master's Level Thesis Research Fall and spring.

MICROBIOLOGY, IMMUNOLOGY, AND PARASITOLOGY

- 315 Basic Immunology Lectures
 (also Biological Sciences 305) Fall.
- 316 Basic Immunology Laboratory (also Biological Sciences 307) Fall.
- 317 Pathogenic Microbiology (also Biological Sciences 308) Spring.
- 331 Medical Parasitology Fall.
- 510 Veterinary Parasitology Fall.
- 515 Veterinary Immunology Spring.
- 516 Infectious Diseases I: Bacteriology and Mycology Fall.
- 517 Infectious Diseases II: Virology and Viral Diseases Fall.
- 518 Infectious Diseases III: Infectious and Zoonotic Diseases Spring.
- 605 Special Projects in Microbiology Fall and spring.
- 606 Small Animal Infectious Diseases Spring.
- [607 Virus Diseases of Cattle Fall.]
- [609 A Health Program for Sheep Spring.]
- 615 Research Opportunities in Veterinary Medicine Fall, spring, and summer.
- 651 Clinical Parasitology of Avian Species Spring.
- 706 Immunology Seminar Series Fall and spring.
- 707 Advanced Work in Bacteriology, Virology, Immunology Fall and spring.

- 708 Selected Topics in Animal Virology Spring.
- 709 Laboratory Methods of Diagnosis Fall and spring.
- 710 Microbiology Seminars Fall and spring.
- [713 Special Projects in Immunology: Topic to be announced Spring.]
- [714 Special Projects in Immunology: Topic to be announced Spring.]
- [715 Special Projects in Immunology: Topic to be announced Spring.]
 716 Special Topics in Immunology:
- 716 Special Topics in Immunology: Topic to be determined Spring.
- 717 Special Topics in Immunology: Topic to be determined Spring.
- 718 Special Topics in Immunology: Topic to be determined Spring.
- 737 Advanced Work in Parasitology Fall and spring.
- [767 Immunoparasitology Spring.]
- 783 Seminars in Parasitology Fall and spring.

PATHOLOGY

- 535 Veterinary Pathology I Fall.
- 536 Veterinary Pathology II Spring.
- 539 Introduction to Laboratory Animal Medicine Spring.
- 540 Pathology Service Fall and spring.
- 549 Laboratory Animal Clinical Rotation Spring.
- 571 Clinical Pathology Spring.
- 613 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.
- 635 Special Problems in Pathology Fall and spring.
- [636 Wildlife Pathology Fall.]
- [637 Postmortem Pathology Fall and spring.]
- 638 The Bottom Line Fall and spring.639 Autotutorial in Laboratory Animal
- 639 Autotutorial in Laboratory Anima Medicine and Science Fall and spring.
- [640 Principles of Toxicological Pathology Fall.]
- 641 Clinical Immunology Spring.
- 642 Public Policy and Laboratory Animal Science Spring.
- 643 The Use of Animal Models to Explore Physiologic and Pathologic Mechanisms in Animals and Man Fall.
- [701 Pathobiology of Disease: Cell Growth, Differentiation, and Neoplastic Transformation Spring.]
- [702 Pathobiology of Disease: Tumor Cell Biology Spring.]
- [703 Pathobiology of Disease: Extracellular Matrix Spring.]
- 704 Pathobiology of Disease:
 Advanced Immunopathology Fall.
- 705 Pathobiology of Disease: Toxicologic Pathology Fall.
- 706 Pathobiology of Disease: Advanced Reproductive Pathology Fall.
- 707 Pathobiology of Disease:
 The Inflammatory Process Spring.
- 708 Pathobiology of Disease: Genetic Basis of Disease Spring.
- 709 Pathobiology of Disease:
 Advanced Clinical Pathology Spring.

- [710 Pathobiology of Disease: Advanced Neuropathobiology Fall.]
- [711 Pathobiology of Disease: Metabolic Bone Disorders Fall.]
- [712 Pathobiology of Disease: Laboratory Animal Pathology Fall.]
- 736 Pathology of Nutritional Diseases
 Spring.
- 739 Advanced Work in Pathology Fall and spring.
- 749 Laboratory Animal Clinical Rotation Fall and spring.
- 788 Seminar in Surgical Pathology Fall and spring.
- 789 Seminar in Necropsy Pathology Fall and spring.
- 790 Special Topics in Pathology Fall.
- 793 Lectures in General Pathology Fall.
- 794 Lectures in Special Pathology Spring.
- 796 Medical Primatology Fall.

PHARMACOLOGY

- 528 Pharmacology I Fall.
- 529 Pharmacology II Spring.
- 610 Introduction to Chemical and Environmental Toxicology (also Toxicology 610) Fall.
- 620 Advanced Clinical Pharmacology Spring.
- [621 Toxicology (also Toxicology 621) Spring.]
- 622 Special Projects in Pharmacology Fall, spring, and summer.
- 629 Research Opportunities in Veterinary Medicine Fall, January, spring, and summer.
- 660 Safety Evaluations in Public Health
- [700 Calcium and Other Second Messengers in Cell Activation Fall.]
- 701 Receptors and Ion Channels Spring.
- 703 Receptor Binding: Theory and Techniques (also Biological Sciences 790, Sec. 02) Spring.
- 704 CNS Neuropharmacology:
 Mechanisms-Synaptic Transmission
 Fall.
- 705 Mechanisms of Receptor-G Protein-Coupled Signal Transduction Spring.

Special Projects and Research

- [711 The Role of Calcium in Stimulus-Secretion Coupling Fall, spring, and summer.]
- [712 The Receptor for Immunoglobulin E on Tumor Mast Cells Fall, spring, and summer.]
- 713 Mechanisms of Growth-Factor
 Action Fall, spring, and summer.
- 714 Central Nervous System Neurotransmitters Fall, spring, and summer.
- 716 Neurobiology of Seizure Disorders Fall, spring, and summer.
- 717 Single-Channel Recording Fall, spring, and summer.
- 718 Structure-Function of the Nicotinic Acetylcholine Receptor Fall, spring, and summer.
- 719 Computer Modeling of Drug-Receptor Interactions Fall, spring, and summer.

- 720 Modulation of Nicotinic **Acetylcholine Receptor Function** by Substance P Fall, spring, and
- 721 Molecular Mechanisms of Pharmacological Blockade of Voltage-Dependent Calcium Channels Fall. spring, and summer.
- 723 The Role of Calcium in the Control of Electrolyte Transport Fall and
- 724 The Control of Hormone Secretion Fall and spring.

Special Topics

- 741 Neuromodulation Fall, spring, and
- 742 Receptor Mechanisms Fall, spring, and summer.
- 743 Neuropeptides Fall, spring, and summer.
- 744 Voltage-dependent Calcium Channels Fall, spring, and summer.
- 745 Neuropharmacology Fall, spring, and summer
- 746 Electrophysiological Techniques Fall, spring, and summer.
- 747 Amino Acid Neurotransmitters Fall, spring, and summer.
- [748 Stimulus-Secretion Coupling Fall, spring, and summer.]
- [749 Second Messengers in Cell Activation Fall, spring, and summer.1
- [750 Cell Calcium Fall, spring, and summer.1
- 1751 Receptors in the Immune System Fall, spring, and summer.]
- [752 Mediators of Inflammation Fall, spring, and summer.]
- 753 Clinical Pharmacology Fall.
- 754 G Proteins in Signal Transduction Fall, spring, and summer.
- 755 Calcium in the Control of Hormone Secretion Fall.
- 756 Mechanisms of Calcium Handling Fall and spring.
- 757 Intestinal Electrolyte Transport Fall and spring.
- 759 Receptor Binding Techniques Fall, spring, and summer.
- 760 Advanced Topics In Pharmacology Fall, spring, and summer
- 770 Graduate Research in Pharmacology Fall, spring, and summer.

PHYSIOI OGY

- **Biological Basis of Sex Differences** (Biological Sciences 214) Fall.
- Histology: The Biology of the Tissues (Biological Sciences 313) Fall.
- Cellular Physiology (Biological Sciences 316) Spring.
- 346 Introductory Animal Physiology, Lectures (also Biological Sciences 311) Fall.
- 348 Introductory Animal Physiology, Laboratory (also Biological Sciences 319) Fall.
- Seminar in Anatomy and Physiology (Biological Sciences 410) Fall and spring.
- **Mammalian Physiology** (Biological Sciences 458) Spring.

- **Undergraduate Research in Biology** (Biological Sciences 499) Fall and
- 525 Molecular and Cellular Physiology Fall.
- 526 Systems Physiology | Fall.
- 527 Systems Physiology II Spring.
- 528 Veterinary Ethics Fall and spring.
- 612 Research Opportunities in Veterinary Medicine Fall, spring, and summer.
- Lipids (Biological Sciences 619 and Nutritional Sciences 602) Fall.
- 625 Problems in Dog and Cat Behavior Spring.
- 626 Problems in Equine Behavior Spring.
- 627 Acid-Base Relations (Biological Sciences 715) Fall. spring, and summer.
- 628 Graduate Research in Animal Physiology (also Biological Sciences 719) Fall and spring.
- Plasma Lipoproteins (Biological Sciences 712) Spring.
- [Physiology of Pregnancy (Biological Sciences 714) Spring.]
- Seminar on Insect Physiology (Biological Sciences 716, also Entomology 685) Spring.
- Structure and Function of Joints with Emphasis on Arthritis (Biological Sciences 717) Fall.
- **[Evolution of Color Vision** (Biological Sciences 718) Spring.]
- 720 Special Problems in Physiology Fall and spring.
- 726 Systems Physiology I Fall.
- 727 Systems Physiology II Spring.
- [752 Biological Membranes and Nutrient Transfer (also Biological Sciences 618) Spring.1
- **Animal Biotechnology** (Biological Sciences 753) Fall.
- Molecular Mechanisms of Hormone Action (also Biological Sciences 658) Spring.
- 759 Nutrition and Physiology of Mineral Elements (also Biological Sciences 615 and 659) Fall.
- Fundamentals of Endocrinology, Lecture (Animal Science 427) Fall.
- Fundamentals of Endocrinology, Laboratory (Animal Science 428) Fall.

FACULTY ROSTER

- Antczak, Douglas F., Ph.D., U. of Cambridge (England) Assoc. Prof., Microbiology, Immunology, and Parasitology
- Appel, Max I., Ph.D, Cornell U. Prof. Microbiology, Immunology, and Parasitology
- Appleton, Judith A., Ph.D., U. of Georgia. Asst. Prof., Microbiology, Immunology, and Parasitology
- Avery, Roger J., Ph.D., U. of Newcastle-upon-Tyne (England) Prof., Microbiology, Immunology, and Parasitology
- Babish, John, Ph.D., Cornell U. Assoc. Prof., Pharmacology
- Ball, Barry A., Ph.D., Cornell U. Asst. Prof.. Clinical Sciences
- Beck, Kathy A., D.V.M., Washington State U.
- Asst. Prof., Clinical Sciences Bell, Robin G., Ph.D., Australian National U. Assoc. Prof., Microbiology, Immunology, and Parasitology
- Bergman, Emmett N., Ph.D., U. of Minnesota. Prof., Physiology/(Section of Physiology)
- Blue, Julia T., Ph.D., U. of Pennsylvania. Assoc. Prof., Clinical Sciences
- Bowman, Dwight D., Ph.D., Tulane U. Asst. Prof., Microbiology, Immunology, and Parasitology
- Bowser, Paul R., Ph.D., Auburn U. Assoc Prof., Avian and Aquatic Animal Medicine Calnek, Bruce W., D.V.M., Cornell U. Prof.,
- Avian and Aquatic Animal Medicine Campbell, S. Gordon, Ph.D., Cornell U. Prof., Microbiology, Immunology, and Parasitology
- Carmichael, Leland E., Ph.D., Cornell U. John M. Olin Professor of Virology, Microbiology, Immunology, and Parasitology
- Casey, James W., Ph.D., U. of Chicago. Assoc. Prof., Microbiology, Immunology, and Parasitology
- Center, Sharon A., D.V.M., U. of California at Davis. Assoc. Prof., Clinical Sciences
- Cerione, Richard A., Ph.D., Rutgers U. Asst. Prof., Pharmacology
- Cooper, Barry J., Ph.D., U. of Sydney (Australia). Assoc. Prof., Pathology
- Corradino, Robert A., Ph.D., Cornell U. Assoc. Prof. Physiology/(Section of Physiology) Cummings, John F., Ph.D., Cornell U. Prof.,
- Anatomy deLahunta, Alexander, Ph.D., Cornell U. Prof.,
- Anatomy
- Dobson, Alan, Ph.D., U. of Aberdeen (Scotland). Prof., Physiology/(Section of Physiology)
- Dubovi, Edward J., Ph.D, U. of Pittsburgh. Assoc. Prof., Diagnostic Laboratory Ducharme, Normand G., D.V.M., U. of
- Montreal (Canada). Assoc. Prof., Clinical
- Erb, Hollis N., Ph.D., U. of Guelph (Canada). Assoc. Prof., Clinical Sciences
- Farnum, Cornelia, Ph.D., U. of Wisconsin. Asst. Prof., Anatomy
- Fewtrell, Clare, D.Phil., U. of Oxford (England). Assoc. Prof., Pharmacology
- Flanders, James A., D.V.M., U. of California at Davis. Asst. Prof., Clinical Sciences Fortune, Joanne E., Ph.D, Cornell U. Assoc.
- Prof., Physiology Fox, Francis H., D.V.M., Cornell U. Prof.,
- Clinical Sciences French, Tracy W., D.V.M., Purdue U. Asst. Prof., Pathology
- Fubini, Susan L., D.V.M., U. of Georgia. Asst. Prof., Clinical Sciences

Gilbert, Robert O., M. Med. Vet., U. of Pretoria (South Africa). Asst. Prof., Clinical Sciences Gilmour, Robert F., Jr., Ph.D., SUNY—Upstate Medical Center. Assoc. Prof., Physiology

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Grohn, Yrjo T., Ph.D., College of Veterinary Medicine, Helsinki (Finland). Asst. Prof.,

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Guard, Charles L. III, Ph.D., Case Western Reserve U. Assoc. Prof., Clinical Sciences Hackett, Richard P., Jr., D.V.M., Ohio State U. Assoc. Prof., Clinical Sciences

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