

# New York State College of Veterinary Medicine

## Administration

Edward C. Melby, Jr., dean  
 Charles G. Rickard, associate dean for academic programs  
 Lennart P. Krook, associate dean for postdoctoral education  
 Robert B. Brown, assistant dean for administration  
 Richard Rostovsky, assistant dean for hospital administration  
 John C. Semmler, assistant dean for facilities and research administration  
 Ann Marcham, assistant to the dean for instructional support and special projects  
 Edward J. Tretheway, assistant to the dean for public affairs  
 Neil L. Norcross, secretary of the college  
 Fred W. Quimby, director of laboratory animal medicine and service  
 Marcia James Sawyer, director of student affairs and admissions  
 Howard Moraff, director of computer resources  
 Alexander deLahunta, medical director of the Teaching Hospital  
 Charles E. Short, director of continuing education  
 Raymond H. Cypess, director of the Diagnostic Laboratory

## The College

The College of Veterinary Medicine offers a professional program which 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. In exceptional cases, outstanding students who have completed all of the prerequisites in two years of undergraduate education may be considered for admission. 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, Doctor of Science in Veterinary Medicine, 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.

## Anatomy

- 500 **Gross Anatomy** Fall.
- 501 **Gross Anatomy** Spring.
- 502 **Developmental Anatomy and Cytology** Fall.

- 503 **Histology and Organology** Spring.
- 504 **Neuroanatomy** Spring.
- 505 **Applied Anatomy** Fall.
- 506 **Applied Anatomy** Spring.
- 600 **Special Projects in Anatomy** Fall and spring.
- 601 **Advanced Anatomy** Fall and spring.
- 602 **Advanced Clinical Neurology** Spring.
- 700 **Vertebrate Morphology** Spring.

## Avian and Aquatic Animal Medicine

- 555 **Avian Diseases** Spring.
- 672 **Aquavet: Introduction to Aquatic Veterinary Medicine** Fall.
- 673 **Diseases of Aquarium Fish** Spring.
- 770 **Advanced Work in Avian Diseases** Fall and spring.
- 771 **Graduate Seminar in Diseases of Aquatic Animals** Fall and spring.
- 772 **Advanced Work in Aquatic Animal Diseases** Fall and spring.

## Clinical Sciences

- 475 **Health and Diseases of Animals** Spring.
- 546 **Clinical Orientation** Fall.
- 547 **Practice Management Experience at the Small Animal Hospital** Spring.
- 550 **Applied Radiation Biology and Veterinary Nuclear Medicine** Fall.
- 560 **Clinical Methods** Fall.
- 561 **Obstetrics and Reproductive Diseases** Spring.
- 562 **Obstetrics and Reproductive Diseases** Fall.
- 563 **Large Animal Medicine** Fall.
- 564 **Large Animal Medicine** Spring.
- 565 **Large Animal Surgery** Spring.
- 566 **Radiology** Spring.
- 567 **Clinical Nutrition** Spring.
- 568 **Veterinary Medical Orientation** Fall.
- 569 **Veterinary Medical Orientation** Spring.
- 570 **Theriogenology** Spring.
- 571 **Clinical Pathology** Fall.
- 572 **Senior Seminar** Fall and spring.
- 573 **Large Animal Clinic** Fall.
- 574 **Large Animal Surgical Clinic** Spring.
- 575 **Ambulatory Clinic** Fall.
- 576 **Ambulatory Clinic** Spring.
- 577 **Diagnostic Services** Fall.
- 578 **Anesthesiology Clinic** Spring.
- 579 **General Medicine** Spring.
- 580 **Radiology Clinic** Spring.
- 581 **Nutrition** Fall.
- 582 **Large Animal Surgical Techniques** Spring.
- 583 **Small Animal Medicine and Surgery** Fall.
- 584 **Small Animal Medicine and Surgery** Spring.
- 586 **Small Animal Surgical Exercises** Spring.
- 587 **General Surgery and Anesthesiology** Fall.
- 589 **Small Animal Medical Clinic** Fall.
- 590 **Small Animal Medical Clinic** Spring.
- 591 **Small Animal Surgical Clinic** Fall.
- 592 **Small Animal Surgical Clinic** Spring.
- 593 **Ophthalmology** Spring.
- 594 **Large Animal Medical Clinic** Spring.
- 596 **Opportunities in Veterinary Medicine** Spring.
- 598 **Dermatology Clinic** Spring.
- 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.
- 679 **Dairy Herd Health** Fall.
- 680 **Poisonous Plants** Fall.
- 681 **Horse Health Management** Spring.
- 684 **Horse Lameness** Spring.
- 686 **Goats: Management and Diseases** Spring.
- 687 **Diseases of Swine** Spring.
- 688 **Special Problems in Small Animal Medicine** Fall and spring.
- 689 **Special Problems in Small Animal Surgery** Fall and spring.
- 690 **Veterinary Dermatology** Fall and spring.
- 691 **Advanced Large Animal Internal Medicine Problems** Spring.
- 778 **Gastroenterology Conference** Fall and spring.
- 779 **Veterinary Gastroenterology** Spring.
- 781 **Advanced Work** Fall and spring.
- 782 **Ophthalmology** Spring.

## Microbiology

- 315 **Basic Immunology, Lectures** Fall.
- 316 **Basic Immunology, Laboratory** Fall.
- 317 **Pathogenic Microbiology** Spring.
- 515 **Veterinary Immunology** Fall.
- 516 **Veterinary Bacteriology and Mycology** Fall.
- 517 **Veterinary Virology** Spring.
- 518 **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.
- 706 **Advanced Immunology, Laboratory** Spring.
- 707 **Advanced Work in Bacteriology, Virology, or Immunology** Fall and spring.
- 708 **Animal Virology, Lectures and Laboratory Demonstrations** Spring.
- 709 **Laboratory Methods of Diagnosis** Fall and spring.
- 710 **Microbiology Seminar** Fall and spring.
- 711 **Seminars on Current Topics in Immunology and Microbiology** Fall, spring, and summer

## Pathology

- 535 **Veterinary Pathology I** Fall.
- 536 **Veterinary Pathology II** Spring.
- 539 **Introduction to Laboratory Animal Medicine** Fall.
- 540 **Clinical Pathology** Spring.
- 541 **Necropsy Clinic** Spring.
- 635 **Special Problems in Pathology** Fall and spring.
- 636 **Wildlife Pathology** Fall.
- 637 **Postmortem Pathology** Fall.
- 638 **Microscopy** Fall and summer.
- 640 **Principles of Toxicological Pathology** Fall.
- 641 **Clinical Immunology** Spring.
- 736 **Pathology of Nutritional Diseases** Spring.
- 739 **Advanced Work in Pathology** Fall and spring.
- 740 **Reproductive Pathology** 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.

- 792 **Immunopathology** Spring.
- 795 **Lectures in General Pathology** Fall.

## Pharmacology

- 528 **Basic Pharmacology** Spring.
- 529 **Clinical Pharmacology** Fall.
- 621 **Toxicology** Spring.
- 622 **Special Projects in Pharmacology** Fall and spring.
- 721 **Research** Fall and spring.
- 724 **Physiologic Disposition of Drugs and Poisons** Spring.

## Physiology

- The Vertebrates (Biological Sciences 274)** Spring.
- Histology: The Biology of the Tissues (Biological Sciences 313)** Fall.
- Ecological Animal Physiology, Lectures (Biological Sciences 315)** Fall.
- Ecological Animal Physiology, Laboratory (Biological Sciences 317)** Fall.
- 346 **Introductory Animal Physiology, Lectures (also Biological Sciences 311)** Fall.
- 348 **Introductory Animal Physiology, Laboratory (also Biological Sciences 319)** Fall.
- Biological Rhythms with a Period of One Day to One Year (Biological Sciences 351)** Fall.
- Seminar in Anatomy and Physiology (Biological Sciences 410)** Fall and spring.
- General Animal Physiology: A Quantitative Approach, Lectures (Biological Sciences 416)** Spring.
- General Animal Physiology, Laboratory (Biological Sciences 418)** Spring.
- Comparative Physiology of Reproduction of Vertebrates, Lectures (Biological Sciences 452 and Animal Sciences 452)** Spring.
- Comparative Physiology of Reproduction of Vertebrates, Laboratory (Biological Sciences 454 and Animal Sciences 454)** Spring.
- Mammalian Physiology, Lectures (Biological Sciences 458)** Spring.
- Mammalian Physiology, Laboratory (Biological Sciences 458)** Spring.
- Undergraduate Research in Biology (Biological Sciences 499)** Fall and spring.
- 525 **Cellular Mechanisms** Fall.
- 526 **Physiology for Veterinary Students** Spring.
- 527 **Physiology for Veterinary Students** Fall.
- 550 **Applied Radiation Biology and Veterinary Nuclear Medicine** Fall.
- 600 **Graduate Research in Animal Physiology and Anatomy (also Biological Sciences 719)** Fall and spring.

- Lipids (Biological Sciences 619 and Nutritional Sciences 602)** Fall.

- 620 **Special Projects in Physiology** Fall and spring.
- 626 **Veterinary Animal Behavior** Spring.
- 627 **Acid-Base Relations** Fall and spring.
- 650 **Special Projects in Physical Biology** Fall and spring.
- 653 **Clinical and Research Techniques in Veterinary Nuclear Medicine** Fall.
- 720 **Special Problems in Physiology** Fall and spring.
- 726 **Physiology** Spring.
- 727 **Physiology** Fall.
- 750 **Radiolabels in Biological Research (also Biological Sciences 616)** Spring.
- 755 **Physical Biology Graduate Seminar** Fall and spring.
- 758 **Molecular Mechanisms of Hormone Action (also Biological Sciences 658)** Spring.

## Preventive Medicine

- 330 **The Population Biology of Health and Disease** Spring.
- 331 **Medical Parasitology** Fall.
- 332 **Systematics and Bionomics of Animal Parasites** Fall.
- 510 **Animal Parasitology** Fall.
- 511 **Diagnostic Parasitology** Fall.
- 520 **Preventive Medicine in Animal Health Management** Spring.
- 545 **Principles of Epidemiology** Spring.
- 568 **Veterinary Medical Orientation** Fall.
- 660 **Safety Evaluation in Public Health** Spring.
- 662 **Advanced Epidemiology** Spring.
- 737 **Advanced Work in Animal Parasitology** Fall and spring.
- 766 **Graduate Research** Fall, spring, and summer.
- 768 **Master's-Level Thesis** Fall, spring, and summer.
- 769 **Doctoral-Level Thesis Research** Fall, spring, and summer.

## Faculty Roster

- Antczak, Douglas F., Ph.D., U. of Cambridge. Asst. Prof., Microbiology
- Appel, Max J., Ph.D., Cornell U., Prof., Microbiology
- Babish, John, Ph.D., Cornell U. Asst. Prof., Preventive Medicine
- Bell, Robin G., Ph.D., Australian National U. Asst. Prof., Microbiology
- Bergman, Emmett N., Ph.D., U. of Minnesota. Prof., Physiology

- Blue, Julia T., U. of Pennsylvania Asst. Prof., Clinical Sciences
- Bolton, Gary R., D.V.M., Iowa State U. Assoc. Prof., Clinical Sciences
- Brunner, Michael A., Ph.D., Cornell U. Asst. Prof., Preventive Medicine
- Calnek, Bruce W., D.V.M., Cornell U. Prof., Avian and Aquatic Animal Medicine
- Campbell, S. Gordon, Ph.D., Cornell U. Prof., Microbiology
- Carlisle, James C., M.Sc., Stirling U. Asst. Prof., Avian and Aquatic Animal Medicine/Pathology
- Carmichael, Leland E., Ph.D., Cornell U. John M. Olin Professor of Virology, Microbiology
- Casarett, Alison P., Ph.D., U. of Rochester. Prof., Physiology
- Castleman, William L., Ph.D., U. of California at Davis. Asst. Prof., Pathology
- Cockerell, Gary L., Ph.D., Ohio State U. Assoc. Prof., Pathology
- Cooper, Barry J., Ph.D., U. of Sydney. Asst. Prof., Pathology
- Corradino, Robert A., Ph.D., Cornell U. Assoc. Prof., Physiology/(Section of Physiology)
- Cummings, John F., Ph.D., Cornell U. Prof., Anatomy
- Cypess, Raymond H., Ph.D., U. of North Carolina. Prof., Diagnostic Laboratory/Preventive Medicine/Microbiology
- Davidson, Jeffrey N., D.V.M. U. of California at Davis. Asst. Prof., Preventive Medicine
- deLahunta, Alexander, Ph.D., Cornell U. Prof., Clinical Sciences/Anatomy
- Dobson, Alan, Ph.D., U. of Aberdeen. Prof., Physiology/(Section of Physiology)
- Dunny, Gary M., Ph.D., U. of Michigan. Asst. Prof., Microbiology
- Erb, Hollis N., Ph.D., U. of Guelph. Asst. Prof., Preventive Medicine
- Evans, Howard E., Ph.D., Cornell U. Prof., Anatomy
- Fabricant, Julius, Ph.D., Cornell U. Prof., Avian and Aquatic Animal Medicine/Microbiology
- Fox, Francis H., D.V.M., Cornell U. Prof., Clinical Sciences
- Gasteiger, Edgar L., Jr., Ph.D., U. of Minnesota. Prof., Physiology/(Section of Physiology)
- Georgi, Jay R., Ph.D., Cornell U. Prof., Pathology/Diagnostic Laboratory
- Gillespie, James H., V.M.D., U. of Pennsylvania. Prof., Microbiology
- Gleed, Robin D., D.V.M., U. of Liverpool (England). Asst. Prof., Clinical Sciences
- Hackett, Richard P., Jr., D.V.M., Ohio State U. Asst. Prof., Clinical Sciences
- Hall, Charles E., D.V.M., Cornell U. Assoc. Prof., Clinical Sciences
- Hansel, William, Ph.D., Cornell U. Prof., Physiology/(Section of Physiology)/Animal Science
- Harvey, H. Jay, D.V.M., Kansas State U. Asst. Prof., Clinical Sciences
- Henion, John D., Ph.D., SUNY at Albany. Asst. Prof., Diagnostic Laboratory
- Hornbuckle, William E., D.V.M., Oklahoma State U. Asst. Prof., Clinical Sciences
- Houpt, Katherine A., Ph.D., U. of Pennsylvania Asst. Prof., Physiology/(Section of Physiology)
- Houpt, T. Richard, Ph.D., U. of Tennessee. Prof., Physiology/(Section of Physiology)
- Jacobson, Richard H., Ph.D., Montana State U. Asst. Prof., Diagnostic Laboratory/Pathology
- Kalffeltz, Francis A., Ph.D., Cornell U. Professor, Clinical Sciences/Physiology
- Kern, Thomas J., D.V.M., U. of Missouri. Asst. Prof., Clinical Sciences
- King, John M., Ph.D., Cornell U. Prof., Pathology
- Kirk, Robert W., D.V.M., Cornell U. Prof., Clinical Sciences
- Krook, Lennart P., Ph.D., Royal Veterinary Coll. at Stockholm. Prof., Pathology
- LaFauce, Norman A., D.V.M., U. of California at Davis. Asst. Prof., Clinical Sciences
- Lee, Kyu M., Ph.D., Cornell U. Prof., Microbiology
- Leibovitz, Louis, V.M.D., U. of Pennsylvania. Assoc. Prof., Avian and Aquatic Animal Medicine/Microbiology
- Lein, Donald H., Ph.D., U. of Connecticut. Assoc. Prof., Diagnostic Laboratory
- Lengemann, Frederick W., Ph.D., U. of Wisconsin. Prof., Physiology/(Section of Physiology)
- Lewis, Robert M., D.V.M., Washington State U. Prof., Pathology
- Lindmark, Donald G., Ph.D., U. of Rhode Island. Assoc. Prof., Preventive Medicine
- Lowe, John E., D.V.M., Cornell U. Assoc. Prof., Clinical Sciences
- Lust, George, Ph.D., Cornell U. Assoc. Prof., Microbiology
- MacCoy, Douglas M., D.V.M., U. of Georgia. Asst. Prof., Clinical Sciences
- McGregor, Douglas D., D.Phil., Oxford U. Prof., Microbiology
- Manning, Thomas O., D.V.M., Cornell U. Asst. Prof., Clinical Sciences
- Maylin, George A., Ph.D., Cornell U. Assoc. Prof., Diagnostic Laboratory
- Melby, Edward C., Jr., D.V.M., Cornell U. Prof., Clinical Sciences
- Minor, Ronald R., Ph.D., U. of Pennsylvania. Assoc. Prof., Pathology
- Noden, Drew M., Ph.D., Washington U. Assoc. Prof., Anatomy
- Norcross, Neil L., Ph.D., U. of Massachusetts. Prof., Clinical Sciences/Microbiology
- Noronha, Fernando M., D.V.M., U. of Lisbon. Prof., Pathology/Microbiology
- Pearson, Erwin, D.V.M., Cornell U. Asst. Prof., Clinical Sciences
- Peckham, Malcolm C., D.V.M., Cornell U. Prof., Avian and Aquatic Animal Medicine
- Poppensiek, George C., V.M.D., U. of Pennsylvania. James Law Professor of Comparative Medicine, Microbiology
- Postle, Donald S., D.V.M., Ohio State U. Assoc. Prof., Clinical Sciences
- Quimby, Fred W., Ph.D., U. of Pennsylvania. Assoc. Prof., Laboratory Animal Sciences/Pathology
- Randolph, J. F., D.V.M., Cornell U. Asst. Prof., Clinical Sciences
- Rebhun, William C., D.V.M., Cornell U. Asst. Prof., Clinical Sciences
- Reimers, Thomas J., Ph.D., U. of Illinois. Asst. Prof., Diagnostic Laboratory
- Rendano, Victor T., V.M.D., U. of Pennsylvania. Assoc. Prof., Clinical Sciences
- Rickard, Charles G., Ph.D., U. of Michigan. Prof., Pathology
- Riis, Ronald C., D.V.M., U. of Minnesota. Assoc. Prof., Clinical Sciences
- Sack, Wolfgang O., Ph.D., U. of Edinburgh. Prof., Anatomy
- Schat, Karel A., Ph.D., Cornell U. Asst. Prof., Avian and Aquatic Animal Medicine
- Schryver, Herbert F., Ph.D., U. of Pennsylvania. Assoc. Prof., Clinical Sciences/Pathology
- Schwark, Wayne S., Ph.D., U. of Ottawa. Assoc. Prof., Pharmacology
- Scott, Danny W., D.V.M., U. of California at Davis. Assoc. Prof., Clinical Sciences
- Scott, Frederic W., Ph.D., Cornell U. Prof., Microbiology
- Sellers, Alvin F., Ph.D., U. of Minnesota. Prof., Physiology
- Sharp, Geoffrey W. G., D.Sc., U. of London (England). Prof., Pharmacology
- Sheffy, Ben E., Ph.D., U. of Wisconsin. Prof., Microbiology
- Short, Charles E., D.V.M., Auburn U. Prof., Clinical Sciences
- Stauson, David O., Ph.D., U. of California at Davis. Assoc. Prof., Pathology
- Smith, Donald F., D.V.M., U. of Guelph. Asst. Prof., Clinical Sciences
- Smith, Mary C., D.V.M., Cornell U. Asst. Prof., Clinical Sciences
- Spaulding, Glen L., D.V.M., Iowa State U. Asst. Prof., Clinical Sciences
- Sponenberg, Dan P., Ph.D., Cornell U. Asst. Prof., Clinical Sciences
- Summers, Brian A., B.V.Sc., U. of Melbourne (Australia). Asst. Prof., Pathology
- Tapper, Daniel N., Ph.D., Cornell U. Prof., Physiology/(Section of Physiology)
- Tennant, Bud C., D.V.M., U. of California at Davis. Prof., Clinical Sciences
- Thompson, John C., Jr., Ph.D., Cornell U. Assoc. Prof., Preventive Medicine
- Timoney, John F., Ph.D., National U. of Ireland. Assoc. Prof., Microbiology
- Timoney, Peter J., Trinity Coll., Dublin. Assoc. Prof., Diagnostic Laboratory
- Trotter, Eric J., D.V.M., U. of Illinois. Assoc. Prof., Clinical Sciences
- Wasserman, Robert H., Ph.D., Cornell U. Prof., Physiology/(Section of Physiology)
- White, Karl K., III, D.V.M., Cornell U. Asst. Prof., Clinical Sciences
- White, Maurice E., D.V.M., Cornell U. Asst. Prof., Clinical Sciences
- Whitlock, John H., D.V.M., Iowa State U. Prof., Preventive Medicine
- Winter, Alexander J., Ph.D., U. of Wisconsin. Prof., Clinical Sciences/Microbiology
- Wootton, John F., Ph.D., Cornell U. Prof., Physiology
- Zimmer, James, Ph.D., Cornell U. Asst. Prof., Clinical Sciences