

Cornell University

ANNOUNCEMENTS

New York State Veterinary College



1966-67

A Contract College of the State University
Cornell University, Ithaca, New York

Academic Calendar

1966-67

Freshman Orientation	S, Sept. 17
Registration, new students	M, Sept. 19
Registration, old students	T, Sept. 20
Instruction begins, 1 p.m.	W, Sept. 21
Midterm grades due	W, Nov. 9
Thanksgiving recess:	
Instruction suspended, 12:50 p.m.	W, Nov. 23
Instruction resumed, 8 a.m.	M, Nov. 28
Christmas recess:	
Instruction suspended, 10 p.m.	W, Dec. 21
Instruction resumed, 8 a.m.	Th, Jan. 5
First-term instruction ends	S, Jan. 21
Registration, old students	M, Jan. 23
Examinations begin	T, Jan. 24
Examinations end	W, Feb. 1
Midyear recess	Th, Feb. 2
Midyear recess	F, Feb. 3
Registration, new students	S, Feb. 4
Second-term instruction begins, 8 a.m.	M, Feb. 6
Midterm grades due	S, Mar. 25
Spring recess:	
Instruction suspended, 12:50 p.m.	S, Mar. 25
Instruction resumed, 8 a.m.	M, Apr. 3
Second-term instruction ends, 12:50 p.m.	S, May 27
Final examinations begin	M, May 29
Final examinations end	T, June 6
Commencement Day	M, June 12

ACADEMIC CALENDAR FOR 1967-68. Orientation for new students (dates to be determined). Registration: new students, F, Sept. 8; old students, S, Sept. 9. First-term instruction begins, 7:30 a.m., M, Sept. 11. Midterm grades due, S, Oct. 21. Thanksgiving recess: instruction suspended, 1:10 p.m., W, Nov. 22; resumed, 7:30 a.m., M, Nov. 27. First-term instruction ends, 1:10 p.m., S, Dec. 16. Christmas recess. Independent study period begins, W, Jan. 3. Examinations begin, M, Jan. 8; end, T, Jan. 16. Intersession begins, W, Jan. 17. Registration: new students, F, Jan. 26; old students, S, Jan. 27. Second-term instruction begins, 7:30 a.m., M, Jan. 29. Midterm grades due, S, Mar. 9. Spring recess: instruction suspended, 1:10 p.m., S, Mar. 23; resumed, 7:30 a.m., M, Apr. 1. Second-term instruction ends, 1:10 p.m., S, May 11. Independent study period begins, M, May 13. Examinations begin, M, May 20; end, T, May 28. Commencement Day, M, June 3.

CORNELL UNIVERSITY ANNOUNCEMENTS

Volume 58. Number 10. October 28, 1966. Published twenty times a year: four times in August; twice in March, April, June, July, September, and October; once in January, February, May, and December; no issues in November. Published by Cornell University at Edmund Ezra Day Hall, 18 East Avenue, Ithaca, New York. Second-class postage paid at Ithaca, New York.

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Fay J. Meade, B.S.

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Niel W. Pieper, D.V.M.

General Practitioner, Randolph Road, Middletown, Connecticut.

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Bureau of State Services, Office of Bureau Chief (Program), Room 2046, HEW Bldg. S, Washington, D.C.

Joseph L. Thorne, B.S., D.V.M., M.D.

Department of Internal Medicine, University of Utah Medical School, Salt Lake City, Utah.

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Member, Board of Trustees, Cornell University. General Practitioner, Marcellus, New York.

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Dale R. Corson, Provost.
George C. Poppensiek, Dean of the Veterinary College.
A. Gordon Danks, Director of Student Administration.
Howard E. Evans, Secretary of the College.
Lindley C. Kent, Administrative Assistant.
Howard E. Quirk, Assistant to the Dean.

FACULTY

- James A. Perkins, A.B., Ph.D., President of the University.

EMERITUS PROFESSORS

- Baker, Donald W., B.S., D.V.M., Ph.D., Professor of Veterinary Parasitology, Emeritus.
Dukes, H. Hugh, B.S., D.V.M., M.S., D.H.C., Professor of Veterinary Physiology, Emeritus.
Dye, Joseph A., B.A., Ph.D., Professor of Physiology, Emeritus.
Fincher, Myron G., D.V.M., M.S., Professor of Veterinary Medicine, Emeritus.
Gilman, Herbert L., D.V.M., M.S., Ph.D., Professor of Veterinary Bacteriology, Emeritus.
Olafson, Peter, D.V.M., M.S., Professor of Veterinary Pathology, Emeritus.
Stephenson, Hadley C., B.S., D.V.M., Professor of Veterinary Therapeutics and Small Animal Diseases, Emeritus.

PROFESSORS

- Baker, James A., B.S., M.S., Ph.D., D.V.M., Professor of Veterinary Virology, and Director of the Veterinary Virus Research Institute.
Benjamin, Maxine M., B.S., M.S., D.V.M., Acting Professor in the Department of Veterinary Pathology. (Spring term.)
Bentinck-Smith, John, A.B., D.V.M., Professor of Veterinary Pathology. (On sabbatic leave, 1966-67.)
Bergman, Emmett N., B.S., D.V.M., M.S., Ph.D., Professor of Veterinary Physiology.
Boyer, Clyde I., Jr., V.M.D., M.S., Professor of Laboratory Animal Medicine, and Director of the Diagnostic Laboratory. (On sabbatic leave, 1966-67.)
Bracken, Frank K., D.V.M., Visiting Professor of Veterinary Surgery in Department of Large Animal Medicine, Obstetrics and Surgery. (June 16, 1966-December 16, 1966).
Bruner, Dorsey W., B.S., Ph.D., D.V.M., Professor of Veterinary Micro-

6 FACULTY AND STAFF

- biology, and Chairman of the Department of Veterinary Microbiology.
- Comar, Cyril L., B.S., Ph.D., Professor of Physical Biology and Head of the Department of Physical Biology.
- Danks, A. Gordon, B.S., D.V.M., Professor of Veterinary Surgery, and Director of Student Administration.
- Delahanty, Donald D., D.V.M., M.S., Professor of Veterinary Surgery, and Director of the Large Animal Hospital. (On sabbatic leave, June 15, 1966 – December 15, 1966.)
- Evans, Howard E., B.S., Ph.D., Professor of Veterinary Anatomy, and Secretary of the College.
- Fabricant, Julius, B.S., V.M.D., M.S., Ph.D., Professor of Avian Diseases.
- Fox, Francis H., D.V.M., Professor of Veterinary Medicine and Obstetrics, and Director of the Ambulatory Clinic.
- Gasteiger, E. L., Jr., A.B., M.S., Ph.D., Professor of Physical Biology.
- Gillespie, James H., V.M.D., Professor of Veterinary Bacteriology, and Graduate Field Representative.
- Habel, Robert E., D.V.M., M.Sc., M.V.D., Professor of Veterinary Anatomy, and Head of the Department of Anatomy.
- Hitchner, Stephen B., B.S., V.M.D., Professor of Avian Diseases and Head of the Department of Avian Diseases.
- Kirk, Robert W., B.S., D.V.M., Professor of Small Animal Medicine.
- Krook, Lennart P., B.V.M., D.V.M., Ph.D., Professor of Veterinary Pathology. (On sabbatic leave, 1966–67.)
- Lengemann, Fred W., B.S., M.N.S., Ph.D., Professor of Radiation Biology. (On sabbatic leave, 1966–67.)
- Leonard, Ellis P., B.S., D.V.M., Professor of Small Animal Surgery, Head of the Department of Small Animal Medicine and Surgery, and Director of the Small Animal Clinic. (On sabbatic leave, July 1, 1966 – December 31, 1966.)
- Levine, P. Philip, B.S., D.V.M., M.S., Ph.D., Professor of Avian Diseases.
- McEntee, Kenneth, D.V.M., Professor of Veterinary Medicine and Pathology, and Chairman of the Department of Large Animal Medicine, Obstetrics and Surgery.
- Peckham, Malcolm C., B.S., D.V.M., Professor of Avian Diseases.
- Poppensiek, George C., V.M.D., M.S., Professor of Veterinary Microbiology, and Dean of the College.
- Rickard, Charles G., D.V.M., M.S., Ph.D., Professor of Pathology, and Chairman of the Department of Veterinary Pathology.
- Roberts, Stephen J., D.V.M., M.S., Professor of Veterinary Medicine and Obstetrics.
- Sellers, Alvin F., V.M.D., M.S., Ph.D., Professor of Veterinary Physiology, and Head of the Department of Veterinary Physiology.
- Sheffy, Ben E., B.S., M.S., Ph.D., Professor of Nutrition, Veterinary Virus Research Institute, and Assistant Director of Cornell Research Laboratory for Diseases of Dogs. (On sabbatic leave 1966–67).
- Stevens, Charles E., B.S., D.V.M., M.S., Ph.D., Professor of Veterinary Physiology.

- Wasserman, Robert H., B.S., M.S., Ph.D., Professor of Radiation Biology.
- Whitlock, John H., D.V.M., M.S., Professor of Veterinary Parasitology.
- Winter, Alexander J., B.S., D.V.M., M.S., Ph.D., Professor of Veterinary Microbiology.

ASSOCIATE PROFESSORS

- Björkman, Nils H., V.M.D., Visiting Associate Professor of Veterinary Histology.
- Calnek, Bruce W., D.V.M., M.S., Associate Professor of Avian Diseases.
- Carmichael, Leland E., A.B., D.V.M., Ph.D., Associate Professor of Virology.
- Craig, Peter H., B.S., V.M.D., M.S., Associate Professor of Pathology in the Department of Physical Biology.
- de Lahunta, Alexander, D.V.M., Ph.D., Associate Professor of Veterinary Anatomy.
- Dobson, Alan, B.A., Ph.D., Associate Professor of Veterinary Physiology.
- Geary, Jack C., D.V.M., Associate Professor of Radiology and Director of Radiology in the Department of Large Animal Medicine, Obstetrics and Surgery.
- Georgi, Jay R., D.V.M., Ph.D. Associate Professor of Veterinary Parasitology.
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- Lee, Kyu M., M.D., Ph.D., Associate Professor of Virology.
- Loomis, Wendell K., D.V.M., Associate Professor of Veterinary Surgery.
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- Norcross, Neil L., A.B., M.S., Ph.D., Associate Professor of Immunochemistry.
- Noronha, Fernando M., D.V.M., Associate Professor of Veterinary Virology.
- Olander, Harvey J., B.S., D.V.M., Ph.D., Associate Professor of Veterinary Pathology.
- Ross, George E., Jr., B.S., D.V.M., M.S., Associate Professor of Small Animal Surgery.
- Sack, Wolfgang O., D.V.M., M.R.C.V.S., Ph.D., Associate Professor of Veterinary Anatomy.
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SENIOR RESEARCH ASSOCIATES

- Dunn, Henry O., B.S., M.S., Ph.D., Senior Research Associate in the Department of Large Animal Medicine, Obstetrics and Surgery.
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PROFESSIONAL STAFF

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- Bredderman, Paul J., B.S., M.S., Assistant in the Department of Physical Biology.
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- Brown, Harold L., D.V.M., Field Veterinarian, Mastitis Program (Earlville).
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- Butler, W. Bruce, D.V.M., Medical Interne in Small Animal Medicine and Surgery.
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- Dodd, Kevin, M.V.B., M.R.C.V.S., Assistant in Department of Large Animal Medicine, Obstetrics and Surgery.
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- Hagan, Jean R., D.V.M., Director of Laboratory, Avian Disease Program (Oneonta).
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- Holmes, Dorothy F., D.V.M., Assistant in the Department of Veterinary Microbiology.
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- House, James A., B.S., D.V.M., Assistant in the Department of Veterinary Microbiology.
- Hwang, Jen, D.V.M., M.S., Ph.D., Duck Disease Specialist (Eastport).
- Ingersoll, R. J., B.A., Assistant in the Department of Physical Biology.
- Johnson, Seth D., D.V.M., Field Veterinarian, Mastitis Program (Ithaca).

- Jones, Oswald R., B.S., M.D., Medical Consultant in the Department of Veterinary Microbiology.
- Kahn, Donald E., D.V.M., Assistant in the Department of Veterinary Microbiology.
- Kasprzak, Hedwig, B.A., M.A., Assistant in the Department of Physical Biology.
- Katz, M. L., B.S., D.V.M., M.S., Assistant in the Department of Physiology.
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- Korman, Ruth Z., B.S.A., M.S., Ph.D., Research Associate in the Department of Physical Biology.
- Leibovitz, Louis, B.A., B.S., V.M.D., Field Veterinarian (Eastport).
- LeJambre, Leo F., A.S., B.S., M.S., Research Assistant in the Department of Pathology.
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- Mowers, Harold G., Farrier in the Department of Large Animal Medicine, Obstetrics and Surgery.
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- Newson, Marion, R.N., Medical Illustrator in the Department of Veterinary Anatomy.
- Percy, Dean H., D.V.M., M.Sc., Assistant in the Department of Veterinary Pathology.
- Post, John E., B.S., D.V.M., Research Oncologist in the Department of Veterinary Pathology.
- Price, Jessie I., B.S., M.S., Ph.D., Research Specialist in Avian Diseases (Eastport).
- Rawski, Lisbeth E., M.L.S., Associate Librarian of the Flower Library.
- Reinap, Mia, B.S., B.S. (Library Science), Librarian of the Flower Library.
- Rothmeier, Jeffrey, B.E.E., Assistant in the Department of Physical Biology.
- Savage, Edward L., D.V.M., Research Associate in the Department of Veterinary Pathology.

- Scott, Fredric W., B.S., D.V.M., Assistant in the Department of Veterinary Microbiology.
- Skydsgaard, Jorgen M., B.S., D.V.M., Research Fellow in the Department of Veterinary Physiology.
- Slocombe, J. Owen, D.V.M., Assistant in the Department of Veterinary Pathology.
- Spencer J. Lloyd, B.Sc., D.V.M., Assistant in the Department of Avian Diseases.
- Spomer, Wilma E., B.S., Assistant in the Department of Veterinary Physiology.
- Stark, Dennis M., D.V.M., Assistant in the Department of Large Animal Medicine, Obstetrics and Surgery.
- Temple, Harry C., D.V.M., Field Veterinarian, Mastitis Program (Kingston).
- Thorlacius, Sigurberg O., B.S., M.S., Assistant in the Department of Veterinary Physiology.
- Trenholm, H. Locksley, B.Sc., Assistant in the Department of Veterinary Physiology.
- Turnquest, Robert U., A.B., D.V.M., Research Associate in the Department of Veterinary Pathology.
- Urban, William D., V.M.D., Director of Duck Research Laboratory (Eastport).
- Volnec, F. Jerry, B.S., Assistant in the Department of Veterinary Microbiology.
- Walton, Thomas E., Jr., D.V.M., Assistant in the Department of Veterinary Microbiology.
- Wentworth, Richard A., B.S., M.S., Ph.D., Research Specialist in the Department of Physical Biology.
- Whitlock, Robert H., D.V.M., Surgical Interne in the Department of Large Animal Medicine, Obstetrics and Surgery.
- Wikoff, Susan F., B.A., M.S., Assistant in the Flower Library.
- Wilkie, Bruce N. H., D.V.M., Assistant in the Department of Large Animal Medicine, Obstetrics and Surgery.
- Zeissig, Alexander, B.S., D.V.M., M.S., Ph.D., Acting Director of the Diagnostic Library.

SPECIAL LECTURERS, 1965-66

- Almy, Thomas P., M.D., Professor of Medicine and Director of the Cornell Medical Division, Bellevue Hospital, New York City.
- Barksdale, Zane, Professor of Microbiology, New York University School of Medicine, New York City.
- Batchelder, Roger W., Large Animal Practitioner, Cortland, N.Y.
- Betts, Allan O., Director, Department of Pathology, Royal Veterinary College, London, England.
- Brannon, Warren F., Associate Professor of Animal Husbandry and Sheep Extension Specialist, College of Agriculture, Cornell University, Ithaca, N.Y.

12 SPECIAL LECTURERS

- Broad, Robert W., Commissioner, Tompkins County Health Department, Ithaca, N.Y.
- Burch, George, Assistant Director, Division of Animal Industry, New York State Department of Agriculture and Markets, Albany, N.Y.
- Burke, James D., Professor of Animal Husbandry, College of Agriculture, Cornell University, Ithaca, N.Y.
- Burkhart, Robert L., V.M.D., Agricultural Division, American Cyanamid Company, Princeton, N.J.
- Carpenter, Kendall, Professor of Business Management, New York State College of Agriculture, Cornell University, Ithaca, N.Y.
- Chen, Philip S., Jr., Assistant Professor, Department of Radiation Biology, University of Rochester School of Medicine, Rochester, N.Y.
- Coggins, Leroy W., U.S.D.A., Animal Disease and Parasite Research Division, Kenya, Africa.
- Coppock, Carl E., Assistant Professor, Department of Animal Husbandry, N.Y.S. College of Agriculture, Cornell University, Ithaca, N.Y.
- Cornelius, Charles E., Associate Professor and Chairman of the Department of Physiological Sciences, School of Veterinary Medicine, University of California, Davis, California.
- Dean, Donald W., Associate Director, Division of Laboratories and Research, N.Y.S. Health Department, Albany, N.Y.
- Ditchfield, John, Professor of Virology, Ontario Veterinary College, Guelph, Canada.
- Dewey, James E., Extension Program Leader, Chemicals-Pesticides, Cornell University, Ithaca, N.Y.
- Farah, Alfred, Chairman, Department of Pharmacology, College of Medicine, State University of New York, Syracuse, N.Y.
- Firth, L. K., Practitioner, Canton, Ohio.
- Forsythe, Rodney A., Equine Practitioner, Batavia, N.Y.
- Gans, Joseph H., Associate Professor of Pharmacology, Indiana University, School of Medicine, Indianapolis, Indiana.
- Haller, Christian J., General Practitioner, Avon, N.Y.
- Hoffer, Richard E., Associate Professor of Small Animal Surgery and Medicine, University of Missouri, Columbia, Missouri.
- Hunter, Samuel W., Director, Cardiac Research, St. Joseph's Hospital, St. Paul, Minnesota.
- Iggo, Ainsley, Head, Department of Veterinary Physiology, Royal (Dick) School of Veterinary Studies, University of Edinburgh, Scotland.
- Kemen, Matthew J., Field Veterinarian, Animal Disease Eradication Division, U.S.D.A., Ithaca, N.Y.
- Laughlin, John H., Head, Department of Biophysics, Sloan-Kettering Institute for Cancer Research, New York City.

- Leader, Robert, Associate Professor of Comparative Pathology, The Rockefeller Institute, A Graduate University and Research Center, New York, N.Y.
- Lewis, Norman, General Practitioner, Canandaigua, N.Y.
- Ling, Gilbert N., Director, Department of Molecular Biology, Pennsylvania Hospital, Philadelphia, Pa.
- Lisk, Donald J., Director, Pesticide Residue Laboratory, Cornell University, Ithaca, N.Y.
- Lukens, Walter B., Large Animal Practitioner, Amenia, N.Y.
- Mateka, H. D., Head of Department of Chemistry and Physics, Federal Research Institute for Virus Diseases of Animals, Tuebingen, Germany.
- McKown, Donald C., General Practitioner, Avon, N.Y.
- Merrill, William G., Associate Professor, Department of Animal Husbandry, N.Y.S. College of Agriculture, Cornell University, Ithaca, N.Y.
- Nechay, Bohdan, Assistant Professor, Department of Pharmacology, The Medical School, University of Florida, Gainesville, Florida.
- Minter, W., Field Veterinarian, Animal Disease Eradication Division, U.S.D.A., Albany, N.Y.
- Nelson, A. Wendell, Research Associate, Department of Veterinary Clinics and Surgery, Colorado State University, Fort Collins, Colorado.
- Nicoletti, Paul D., Brucellosis Epidemiologist, Animal Health Division, U.S.D.A., Albany, N.Y.
- Nielsen, S. W., Professor of Veterinary Pathology, Department of Animal Diseases, University of Connecticut, Storrs, Connecticut.
- O'Dea, Joseph C., Equine Practitioner, Avon, N.Y.
- Olsson, Sten-Erik, Head, Comparative Pathology, New York Hospital for Special Surgery, New York City.
- Orloff, Jack, Chief, Laboratory of Kidney and Electrolyte Metabolism, National Heart Institute, National Institutes of Health, Bethesda, Maryland.
- Pierce, Ellis, Associate Professor of Animal Husbandry and Swine Extension Specialist, College of Agriculture, Cornell University, Ithaca, N.Y.
- Rhodes, W. Harker, Associate Professor of Veterinary Medicine, Colorado State University, Fort Collins, Colorado.
- Roberts, Ernest F., Professor of Law, Law School, Cornell University, Ithaca, N.Y.
- Rosenblatt, Frank, Director, Cognitive Systems Research, Cornell University, Ithaca, N.Y.
- Segre, Diego, Professor of Microbiology, Department of Veterinary Pathology and Hygiene, College of Veterinary Medicine, University of Illinois, Urbana, Ill.
- Schmidt, Glen H., Associate Professor, Department of Animal Husbandry, N.Y.S. College of Agriculture, Cornell University, Ithaca, N.Y.

14 SPECIAL LECTURERS

- Skydsgaard, J. M., Research Associate, Department of Obstetrics and Gynecology, Royal Veterinary and Agricultural College, Copenhagen, Denmark.
- Smith, Sedgwick E., Professor of Animal Husbandry, College of Agriculture, Cornell University, Ithaca, N.Y.
- Stannard, J. Newell, Associate Dean of Graduate Studies, University of Rochester Medical Center, Rochester, N.Y.
- Steele, John R., Equine Practitioner, Vernon, N.Y.
- Strohmeier, Karl, Department of Chemistry and Physics, Federal Research Institute for Virus Diseases of Animals, Tuebingen, Germany.
- Suplee, Dale, Veterinarian-in-Charge, Animal Disease Eradication Division, U.S.D.A., Albany, N.Y.
- Tasker, John B., Associate Professor of Veterinary Medicine, Department of Veterinary Medicine, Colorado State University, Fort Collins, Colorado.
- Thomas, E. Donnall, Head, Department of Medicine, University of Washington, U. S. Public Health Service, Seattle, Washington.
- Thomson, Reginald G., Associate Professor of Pathology, Ontario Veterinary College, Guelph, Ontario, Canada.
- Turk, Richard D., Professor and Head of the Department of Parasitology, College of Veterinary Medicine, Texas A & M University, College Station, Texas.
- Turner, Benjamin F., Practitioner, Cortland, N.Y.
- Wagner, William C., Graduate Assistant, Department of Animal Husbandry, N.Y.S. College of Agriculture, Cornell University, Ithaca, N.Y.
- Warner, Richard G., Professor, Department of Animal Husbandry, N.Y.S. College of Agriculture, Cornell University, Ithaca, N.Y.
- Woody, Charles D., M.D., Research Associate, Laboratory of Neurophysiology, National Institutes of Health, Bethesda, Maryland.
- Wright, Frederick O., Small Animal Practitioner, Huntington, L.I., N.Y.

VISITING STAFF, 1965-66

- Canter, Domingo, Buenos Aires, Argentina.
- Crofton, Harry D., Newcastle Upon Tyne, England.
- DeMoore, A., Ghent, Belgium.
- Dents, Charles L., Tuskegee, Alabama.
- Gerlach, Helga, Hannover, Germany.
- Kita, Jerzy, Warsaw, Poland.
- Leondidis, Sotizios, Thessaloniki, Greece.
- Meyer, Kenneth B., Lafayette, Indiana.
- Renaud, Gaston, Quebec, Canada (St. Hyacinthe).
- Skydsgaard, Jorgen M., Copenhagen, Denmark.
- Umana, Ramon F., Bogota, Colombia.

STANDING COMMITTEES OF THE COLLEGE FACULTY*

GENERAL COMMITTEE

- C. E. Stevens (1965-68), Acting
Chairman
F. H. Fox (pro tem for J. Ben-
tinck-Smith) (1964-67)
K. McEntee (1964-67)
R. W. Kirk (1966-69)
A. de Lahunta (1966-69)

CURRICULUM

- D. W. Bruner, Chairman
A. F. Sellers
K. McEntee
E. P. Leonard (R. W. Kirk, pro
tem, fall term, 1966-67)
R. E. Habel
S. B. Hitchner
C. G. Rickard
C. L. Comar

ADMISSIONS

- A. G. Danks, Chairman
D. W. Bruner (1964-67)
H. E. Quirk (1965-68)
E. P. Leonard (1966-69)
P. P. Levine (1967-70)

CLASS SCHEDULES

- D. W. Bruner, Chairman
C. G. Rickard
E. P. Leonard (W. K. Loomis, pro
tem, fall term, 1966-67)

DEFICIENT STUDENTS

- A. G. Danks, Chairman
G. E. Ross, Jr. (pro tem for J.
Bentinck-Smith)
D. W. Bruner

STUDENT CONDUCT

- S. J. Roberts, Chairman
P. P. Levine
R. W. Kirk

SCHOLARSHIPS

- R. E. Habel, Chairman
R. H. Wasserman
E. P. Leonard
R. B. Hillman
K. McEntee

COLLEGE LIBRARY

- P. P. Levine, Chairman
R. E. Habel
C. L. Comar

CLASS ADVISORY COMMITTEES, A. G. Danks, Chairman

Class of 1970

- J. F. Wootton
F. H. Fox
W. O. Sack

Class of 1968

- J. R. Georgi (pro tem for J. Ben-
tinck-Smith, 1966-67)
W. K. Loomis
S. J. Roberts

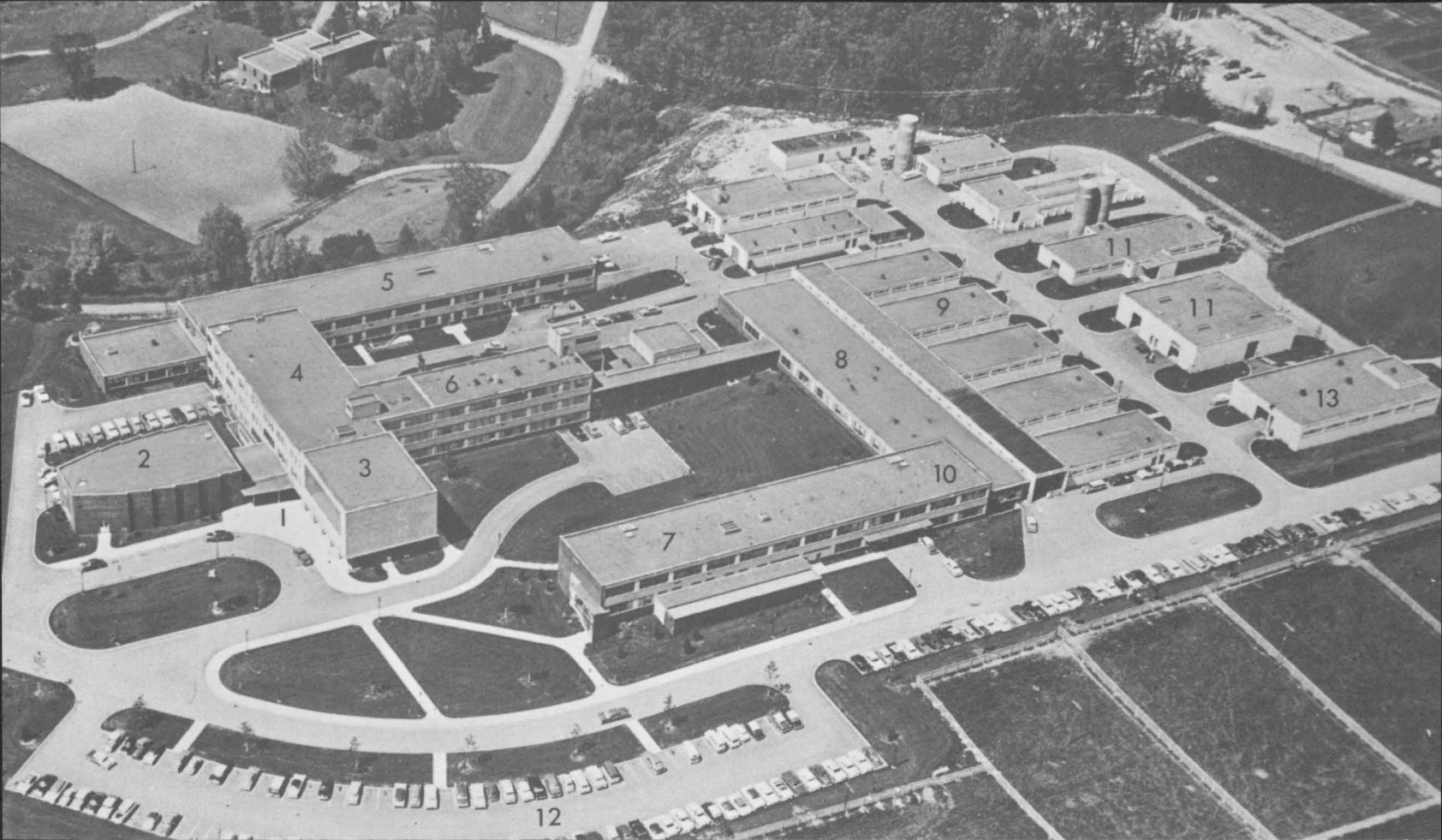
Class of 1969

- A. de Lahunta
J. E. Lowe
G. E. Ross, Jr.

Class of 1967

- D. W. Bruner
R. W. Kirk
H. E. Evans

* The Dean is ex officio a member of all committees.



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Cornell University

THE VETERINARY COLLEGE

BUILDINGS AND RESEARCH FACILITIES

The New York State Veterinary College, established by an act of the State Legislature in 1894, is on the campus of Cornell University at Ithaca, a city of approximately 30,000 permanent residents, situated in the famous Finger Lakes Region of New York at the head of Cayuga Lake. The city is in the south-central part of the state, about 260 miles from New York. It has air connections with Boston, New York, Buffalo, Washington, D.C., Detroit, and other cities by way of Mohawk and Empire State Airlines.

In 1957 the Veterinary College moved into new buildings at the eastern edge of the Cornell campus. Of a plot of about twenty acres, the buildings occupy nearly twelve acres, leaving the remainder for paddocks and exercise lots for animals. They constitute one of the finest physical plants possessed by any of the world's veterinary colleges. The equipment, of the most modern type, is ample for teaching and research in the basic and clinical sciences.

The Veterinary College Library

The library, endowed by a gift from Roswell P. Flower, Governor of New York when the college was founded, is named the Flower Veterinary Library in his honor. It is maintained partly on endowment funds and partly on appropriations from the State. It is on the second floor of Schurman Hall. The large reading room, seating 70, features display shelves of current journals and areas for indexes, abstracts, and other reference books. The adjoining stacks of journals and monographs, on three levels, are open to all users. Individual study carrels are also available.

The Veterinary College. (1) Main Entrance, Schurman Hall. (2) James Law Auditorium. (3) Library. (4) Microbiology. Physical Biology. (5) Anatomy and Physiology. (6) Pathology. Avian Diseases. (7) Small Animal Clinic and Hospital. (8) Large Animal Clinic. (9) Large Animal Hospital Barns. (10) Medicine and Obstetrics. Ambulatory Clinic and Mastitis Control. (11) Ancillary Barns. (12) Visitor Parking. (13) Garage and Farrier Shop.

The library contains over 43,000 volumes and regularly receives 953 periodical and series titles. Represented here is a world-wide selection of veterinary titles plus titles in the biomedical sciences designed to support undergraduate, graduate, and research programs. Cornell University libraries on the campus make available to the students a total of 2,825,000 volumes and 30,000 journals and serials. These collections, interlibrary loans, and photoduplication of materials supplement the research potential of the veterinary library. The library is rich in historical and basic research resources, as well as recent monographic works and especially selected government publications.

The library issues a monthly newsletter listing recent acquisitions. Information on library regulations and suggestions for the use of the library are provided to new students. Additional instruction in bibliographic research is available for advanced problems. A special index to reference sources in the library is also available.

Off-Campus Research Facilities

In addition to the facilities of the campus, extramural facilities for research on infectious, parasitic, and metabolic diseases of farm animals and small animals have been constructed, for the most part on Snyder Hill, about three miles from the campus, on a tract of 133 acres.

Besides the many buildings for housing animals, most of which have small pastures, exercise lots, or paddocks of their own, a number of laboratory buildings have been built for professional staff members stationed there for research.

POULTRY DISEASE RESEARCH

Poultry disease research is done both on the campus in conjunction with the diagnostic and teaching laboratory and at the research laboratory on Snyder Hill about three miles from the campus. A 41-unit disease isolation building forms part of the facilities on the campus.

The Snyder Hill facilities consist of a two-story laboratory well equipped for research in the bacterial, virus, and parasitic diseases of chickens and turkeys. A respiratory disease-free flock of chickens is maintained for the production of chicks and embryos. There are 28 separate pens for holding experimental birds on a tract of land of several acres.

An excellently equipped duck disease research laboratory is maintained at Eastport, Long Island, with the cooperation of the Long Island Duck Research Cooperative. Facilities for housing investigators and graduate students are available.

REGIONAL VETERINARY LABORATORIES FOR POULTRY DISEASE DIAGNOSIS

The Veterinary College maintains and staffs laboratories for poultry disease diagnosis at Ithaca, East Aurora, Oneonta, Kingston, and East-

port. The last is combined with the Duck Research Laboratory. These diagnostic facilities not only serve the poultry industry needs in the surrounding area, but their staffs also provide extension services and assist in the collection of materials and cases required for research in Ithaca.

NEW YORK STATE MASTITIS CONTROL PROGRAM

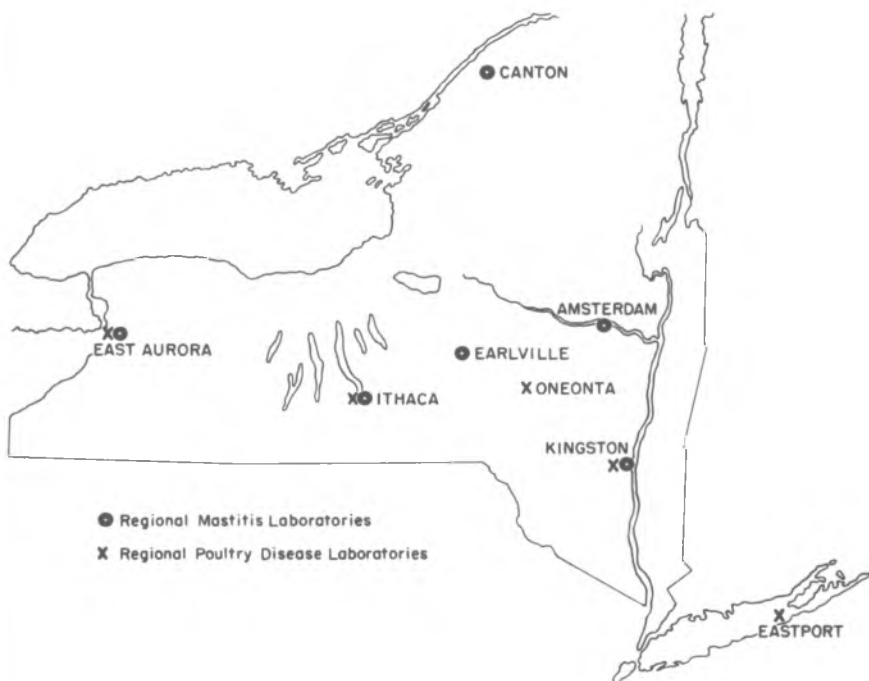
Six laboratories, strategically located in dairy areas of New York State, conduct work on mastitis control programs under the Department of Large Animal Medicine, Obstetrics, and Surgery.

ITHACA. This is the central laboratory where the research and student training programs are conducted. The laboratory serves eleven counties with a cow population of about 180,000.

AMSTERDAM. This laboratory conducts, primarily, a control program for dairy owners. Eleven counties in the Hudson and Mohawk Valleys have approximately 162,000 cows.

CANTON. Eight counties of northern New York are serviced by this laboratory with 229,000 cows. The laboratory is located at the New York State Agricultural and Technical Institute where extension and some student teaching is practiced.

EAST AURORA. Eleven western New York counties with nearly 260,000



cows can obtain mastitis surveys. The laboratory devotes full time to control programs.

EARLVILLE. Seven counties and nearly 270,000 cows have available the control program in central New York.

KINGSTON. Ten counties and 120,000 cows are located in the mid-Hudson and Eastern New York area which can be serviced by this control laboratory.

THE VETERINARY VIRUS RESEARCH INSTITUTE

In September, 1950, the Board of Trustees of Cornell University established a new unit in the New York State Veterinary College: the Veterinary Virus Research Institute. Formation of the Cornell Research Laboratory for Diseases of Dogs was approved as a section of the Institute.

The primary objective of the Institute is to prevent loss from infectious diseases in animals. Toward this end, basic research is conducted upon organisms which cause disease in order to increase knowledge of their nature, means of spread, and methods whereby their spread can be controlled. Another objective of the Institute is the training of workers in the field of virology. Determined by the amount of laboratory space available, a limited number of graduate students and post-graduate visiting investigators are accepted.

The Virus Institute is on Snyder Hill, near the University but far enough in the country so that farmland is available for rearing disease-free animals and a part of the uncontaminated feed supplies necessary. Believed to be the only one of its kind in the world is a herd of disease-free cattle, given by the Rockefeller Institute to the Veterinary Virus Research Institute to supply cattle ideally suitable for research work. Also unique is a kennel building given by the Gaines Dog Research Center for rearing dogs free from disease.

After consideration of the many technical difficulties involved in work with viruses and other living organisms that can be airborne or transferred accidentally in other ways, three buildings were designed and constructed. These contain six modern and fully equipped laboratories for research and teaching, in addition to a library, offices, a tissue culture laboratory, and animal isolation units that can be cleaned and decontaminated effectively.

Another isolation building, acquired by matching funds from the United States Public Health Service and private donors, houses other disease-free animals including pigs, chickens, guinea pigs, rabbits, and mice.

SHEEP DISEASE RESEARCH

A tract of 75 acres of land on Turkey Hill, particularly suitable for research on internal parasites of sheep, has been equipped for maintain-

ing a flock of sheep. On this tract a 10-acre pasture is irrigated artificially to maintain a natural infestation of internal parasites under controlled conditions.

A new sheep barn including facilities for raising experimental animals under helminthologically sterile conditions has recently been constructed.

DISEASES OF THE REPRODUCTIVE TRACT IN CATTLE

Facilities are available for housing approximately 100 heifers and 30 bulls which are used for the study of reproductive diseases of dairy cattle.

RADIATION BIOLOGY

A field laboratory including a radiation exposure facility and a whole body counter for fundamental studies in radiation biology has been constructed on a 40-acre tract of land provided by the University. This facility is an integral part of the Department of Physical Biology.

MUENSCHER POISONOUS PLANTS GARDEN

The most complete garden of poisonous plants in America is north of the James Law Auditorium. In cooperation with Cornell Plantations and the Genetics, Development, and Physiology Section of the Division of Biological Sciences this collection of living plants which are poisonous to livestock is maintained by the Veterinary College. Each specimen is labeled with its scientific name, its common name, and the name of the plant family to which it belongs.

ADMISSION AND ENTRANCE REQUIREMENTS

The minimum educational requirements for admission to the New York State Veterinary College are the satisfactory completion of two years' study in an approved (registered) college or university. The two years of college study must include:

- English — 6 semester hours
- Physics — 6 semester hours, including laboratory
- Biology or Zoology — 6 semester hours, including laboratory
- Chemistry — 12 semester hours, including organic chemistry with laboratory.

The courses in English, physics, and biology or zoology should cover at least one academic year each. The work in chemistry should cover at least one and a half academic years and must include a course in organic chemistry with laboratory work. A course in zoology is preferred to a course in biology.

An applicant is urged not to take courses identical to, or substantially identical to, those in the veterinary curriculum.

An applicant for admission is expected to have facility in the use of the English language in speech and composition. Therefore, a course in oral and written composition, or in speech, is strongly recommended.

The choice of other courses is left to the student, but the following are recommended: quantitative chemical analysis, a modern foreign language, history, economics, government, mathematics, biometry, philosophy, psychology, comparative anatomy, general physiology. It is desirable to have a course in botany. It is suggested that not more than 30 semester hours of the minimum requirements be devoted to chemistry, biology or zoology, and physics.

Prospective applicants are urged to visit the College and discuss with the Director of Student Administration the individual's aptitude and preparation for a place in the profession.

TWO YEARS OF STUDY has been interpreted as meaning the passing of one half as many semester credit units as are required by the particular institution for its baccalaureate degrees. Most institutions which are run on a semester basis require 120 units, but some require 124, and some even 128. At least 60 semester units must be presented, therefore, and in some instances 62 or more.

A **REGISTERED COLLEGE** is one which is registered with, and its curriculum approved by, the New York State Education Department. All colleges within New York State which are authorized to grant baccalaureate degrees are registered and approved. This is not true, however, of all such institutions outside New York State. In general, practically all

of the larger colleges and universities are registered. If in doubt as to whether any particular school is registered, one should address correspondence to the State Education Department, Albany, N.Y., and not to this College.

THE FARM PRACTICE REQUIREMENT. For registration in the third year, a total of 20 farm practice points for farm work experience is required, of which at least 10 must be for experience with livestock. A minimum of 10 points, including not less than 5 for livestock, must be presented to qualify for admission. By "livestock," farm animals are meant. Dogs and cats are not included, and not more than three points can be claimed for experience with poultry.

Except for students who have previously enrolled in the College of Agriculture and whose farm practice scores are available, the Committee on Admissions of the Veterinary College will estimate the experience of all candidates. All who are admitted without farm practice ratings by the Office of Student Practice, New York State College of Agriculture, will have their farm experience evaluated by that office at the time of matriculation. Factors considered in establishing the credits are (1) desirability of the farm from the standpoint of obtaining good experience; (2) the student's report on his farm experience; (3) reports from the farmer on the student's work; and (4) the results of a practical farm experience test. All who are found to be deficient will be required to make up their deficiencies during the first two summer vacations while they are in college.

Applicants who have been reared on farms where livestock are kept should easily meet all requirements. Those who are not farm-reared will have to spend at least three months as full-time farm workers with some responsibility for farm animals to qualify for admission. The full requirements can hardly be met by less than six months of such experience. Little credit will be allowed for experience obtained before the age of 14 years. For guidance in selecting a farm job and keeping necessary records, it is recommended that prospective veterinary students check with the above-mentioned Office of Student Practice.

This requirement is applicable only to men students who are United States citizens; nevertheless, women applicants will improve their chances of acceptance by acquiring as much experience with farm animals and farm life as they can get.

Whenever possible, prospective applicants are urged to obtain the full experience required before submitting their applications. In a highly competitive situation, those who have the full requirements will have an advantage over those who have only the minimum.

THE APPLICANT should write, after August 1 of the year preceding the one in which admission is desired, to the Office of Admissions, Day Hall, Ithaca, N.Y., requesting the application forms for admission to the Veterinary College. The Office of Admissions will require a transcript of the applicant's college record as well as other credentials. Applicants are urged to take the Veterinary Aptitude Tests as administered by the

Psychological Corporation, 304 E. 45th Street, New York, N.Y. 10017. Full information will be furnished with the application form.

THE NUMBER of students that can be admitted annually is limited. It is likely that the number of applicants who can meet the scholastic requirements will exceed the number that can be accepted. A Committee on Admissions of the faculty of the Veterinary College will select those to be admitted after considering not only the formal preparation but also the available evidence bearing on each applicant's character, seriousness of purpose, and fitness for the work that he proposes to undertake. The committee will require a personal interview, whenever that is feasible.

PRIORITY of application is not necessarily a determining factor in the selection of students to be admitted. Nevertheless, the gathering and the weighing of the necessary evidence require time, and, as the committee will begin filling the eligible list early in the year, it is advantageous to the candidate to file his application early. February 15 is the latest date for filing applications. Students who have not completed work required for admission but expect to do so prior to July 1 may apply, and the committee will act on the applications provisionally.

FOREIGN STUDENTS are usually required to take at least one year of the preveterinary study in an approved college or university in the United States.

UNIVERSITY REQUIREMENTS. Applicants for admission must not only satisfy the entrance requirements but must also comply with certain rules of the University, as follows:

1. Every candidate for admission who receives a notice of approval of his application must deposit \$45. Candidates are warned not to send cash, through the mails. A check, draft, or money order should be made payable to *Cornell University* and should be sent to the Office of Admissions, Day Hall, Ithaca, N.Y.

If the candidate matriculates, the deposit is credited to his account to cover matriculation charges and certain graduation expenses and to establish a fund for undergraduate and alumni class activities.

If the candidate withdraws before the due date of his deposit, the deposit will be refunded. No refund will be made to an applicant who withdraws after the due date of the deposit; in that case the whole deposit will be retained by the University in payment of its costs and intangible losses resulting from such withdrawal.

2. Each entering student is expected to assume personal responsibility for fulfilling the following health requirements adopted by the trustees of Cornell University. Permission to register for a new semester will not be granted unless all health requirements pertaining to the previous semester have been fulfilled.*

* Graduate students are responsible for fulfilling similar health requirements. For details see the *Announcement of the Graduate School*.

IMMUNIZATION. A satisfactory certificate of immunization against small-pox, on the form supplied by the University, must be submitted before registration. It will be accepted as satisfactory, only if it certifies that within the last three years a successful vaccination has been performed. If this requirement cannot be fulfilled by the student's home physician, opportunity for immunization will be offered by the Cornell medical staff during the student's first semester, with the cost to be borne by the student. If a student has been absent from the University for more than three years, immunity will be considered to have lapsed, and a certificate of revaccination must be submitted.

X-RAY. Every student is required to have a chest X-ray. Opportunity is given to satisfy this requirement during the student's first week on campus. The cost of the X-ray examination is included in the General Fee. When a student who has been away from the University for more than a year, wishes to re-enter, he must, at his own expense, once more fulfill the chest X-ray requirement.

MEDICAL EXAMINATION. Each undergraduate student is required to have a medical examination. (This includes special students who must meet undergraduate requirements such as physical education, etc.) An undergraduate student accepted for admission will be sent forms to be filled out by his home physician and returned promptly to the Gannett Medical Clinic. A University physician will review the material before it becomes part of the student's permanent health record. All information given is confidential. After arrival at Cornell, a specialized recheck of any questionable medical items will be made, and, if need for re-examination or follow-up is indicated, an appointment to consult a physician at the Clinic will be given. When a student has been away from the University for more than a year, he must, upon re-entrance, submit an interim health history on a University form.

TETANUS TOXOID. Undergraduate students, including special students enrolled in one-year or two-year courses, are required to be immunized to tetanus through use of tetanus toxoid. The University has adopted this rule to avoid reactions, often serious, if antitoxin (horse serum) is administered at the time of injury. Immunity through toxoid offers the advantage of protection without the risk of antitoxin reaction.

Active immunization shall be required within one year prior to initial registration unless the student's home physician is unable to give the toxoid. If there has been no previous immunization, an original series of two or three doses, depending on the type used, spaced at least one month apart will be necessary. This will be followed by a booster dose one year later. If there has been previous immunization, reactivation by a single booster dose is required for entrance to Cornell. After entrance a booster dose will be given whenever medically indicated.

Certification of immunization by the student's home physician is to be reported on the immunization form supplied by the University. Students unable to obtain the immunization at home will be given the opportunity, during the first semester, to obtain it from the Cornell medical staff or any Ithaca physician. If it is received from the former, a charge comparable to the average physician's fee will be made. Opportunity to obtain the required booster dose one year later, and further booster doses as recommended by recognized medical authorities will also be given.

ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing as members of the second-, third-, or fourth-year class must present the necessary educational qualifications for admission to the first-year class and must pass satisfactory examinations in all of the work for which they desire advanced credit, or offer satisfactory certificates of the completion of this work in other schools whose entrance requirements and courses of study are equivalent to those of this College. No person will be admitted to any advanced class except at the beginning of the college year in September.



Some of the buildings of the Veterinary College: Schurman Hall, administration; the Flower Library; and the Walter L. Williams Clinic.

ADMISSION TO THE GRADUATE SCHOOL

Graduates of this College or other colleges may enter the Graduate School of Cornell University and pursue work for the M.S., Ph.D., or D.Sc., in V.M. in the Veterinary College and allied departments of the University. A prospective graduate student should consult the *Announcement of the Graduate School* and apply to the Dean of the Graduate School.

Applicants for graduate study from countries other than the United States and Canada are requested to include in their credentials the results of the Graduate Record Examination (Aptitude) except in cases where this examination is not given in reasonable proximity to the student's home. Where the Graduate Record Examination is not avail-

able the student is requested to submit, instead, the results of the College Entrance Board Examination (Scholastic Aptitude Tests).

The Veterinary College, alone or in combination with other departments of the University, offers advanced students excellent opportunities for study and investigation. Its situation gives it abundant and varied material for research, and it has ample facilities for the prosecution of such work. It encourages graduate and advanced students to carry on independent investigations. Courses of study especially adapted to advanced work and research will be found among those listed on pages 43-62 of this Announcement.

A student who holds the degree of Doctor of Veterinary Medicine from a recognized college or school in the United States or Canada may now transfer one year's residence credit for that work toward the Doctor of Philosophy degree whenever his Special Committee certifies that the work done in the years of professional study formed an integral part of the work required for the doctorate and was of equivalent quality.*

The Degree of Doctor of Science in Veterinary Medicine (D.Sc. in V.M.)

Admission to candidacy for the degree of Doctor of Science in Veterinary Medicine is a function of the Division of Veterinary Medicine of the Graduate School. The following requirements must be met before admission to candidacy:

1. The candidate must have been graduated from an approved school of veterinary medicine for at least five years.
2. He must have demonstrated by published papers his ability to do independent meritorious research.
3. He must have offered satisfactory evidence to the Division of his ability to read accurately the French and German† literature in his field.

Candidates who have no graduate credit beyond their D.V.M. degree must complete not less than four residence units to qualify for the degree.‡ Those who have a Master of Science degree or its equivalent from an approved college or university may complete the minimum residence credit by acquiring at least two additional units.

After a candidate has been admitted, he will select a member of the faculty in veterinary medicine to serve as chairman of his Special Committee. The faculty of the Division will then select two other members of the Committee. These three individuals will have charge of the candidate's program and will be responsible to the faculty of the Division for supervising his work. The candidate's work must fall in the following categories:

* By action of the faculty, January 28, 1955.

† In special cases other languages may be accepted according to the provisions of Paragraphs 118 and 119 of the *Code of Legislation* of the Graduate faculty.

‡ It is considered that at least two units of work leading to the degree of Doctor of Veterinary Medicine are an integral part of this professional degree.

1. Advanced courses in any of the sciences which have a relation to medicine. Selected courses which are part of the regular curriculum of the Cornell University Medical College may be accepted for not more than half the total credit in this category. In no case shall credit be granted for courses which are part of the regular curriculum in veterinary medicine or for similar courses in the Medical College curriculum.

2. Regular attendance and study in any of the clinics of the Veterinary College or of the Medical College.

All candidates must take at least two thirds of their work in courses that may properly be included under Category 1. If desired, they may take all of their work in Category 1. Not more than one-third of their work may be taken in Category 2.

Courses shall be deemed to have been satisfactorily completed only upon receipt of a regular transcript of credits. Following completion of his course work, each candidate for this degree shall present an acceptable monograph or thesis in the area of his special interest and shall submit to a general examination covering the subject matter of his work. The Special Committee shall set the time and place of his examination and invite all members of the Division and all members of the Graduate faculty of other fields who have participated in his training to attend. They shall have the right to examine the candidate and to express to the Special Committee their opinions of the candidate's competence, but the Special Committee alone shall be responsible for recommending him for the degree. The recommendation shall be addressed to the faculty of the Division of Veterinary Medicine of the Graduate School, which then shall make recommendations to the Graduate School.

Seminars

The several departments of the College hold seminars or special conferences for their advanced and graduate students. The seminar hears reports of the results of investigations and the progress of knowledge in its particular field, discusses methods of advanced and independent work such as are expected of those who are preparing theses or prosecuting any special investigation, and hears the reports of the students on the progress of their work. By means of the seminar the student incidentally gains facility in public speaking and fits himself to take a creditable part in the meetings of veterinary or human medical societies.

Combined Courses

Students who do their preveterinary work in the College of Agriculture at Cornell, may, by judicious early planning, be able to qualify for both B.S. and D.V.M. degrees in less time than would be required if the courses were taken consecutively. This can be done by double registration during the latter part of the period whereby certain course credits in the veterinary curriculum can be applied toward completing the requirements for the Bachelor's degree.

In these instances three years are ordinarily spent as a candidate for the baccalaureate degree before the application for veterinary medicine is filed. It should be clearly understood that no assurance can be given in the beginning that candidates will be permitted to complete this plan, since decision on admission to the veterinary course cannot be given until the admission requirements of the Veterinary College have been completed.

Registration

Every student is required to register with the Registrar of the University at the beginning of each term (see the Academic Calendar for the day of registration). After completing that registration, he must register on the same day with the Director of Student Administration of the Veterinary College. After being admitted to the University no student is allowed to register after the close of the regular registration day except by special permission from the Director.

Foreign Students

The University maintains an International Student Office, and foreign students are invited to write to that office for any information they may need, or to consult the staff about any problems they may have. It is suggested that foreign students report to the International Student Office, 142 Day Hall, when they arrive at Cornell.

EXPENSES

TUITION

For students not residents of the State of New York the tuition in the Veterinary College is \$300 a term, payable at the beginning of each term as printed on the registration cards. Tuition is \$200 a term to residents of the State of New York.

For purposes of computing scholar incentive awards, and waiver of tuition, the resident tuition for undergraduates is set at \$400 each year, and the balance is considered fees. For non-resident undergraduates, the tuition is \$600 each year, and the balance is fees.

THE GENERAL FEE

For certain services and privileges the University charges students who are not residents of New York State a General Fee of \$237.50 each term over and above tuition. For students who are residents of New York State, this fee is \$137.50 each term over and above tuition.

This General Fee is paid by all students in the divisions at Ithaca, the amount varying in the different schools and colleges. It contributes toward the services supplied by the libraries, the Clinic and Infirmary, and the student union in Willard Straight Hall, pays a portion of the extra costs of laboratory courses and general administration, and supports programs of physical recreation and student activities.

Tuition and other fees become due when the student registers. The University allows ten days of grace from the first registration day of each term. The last day of grace is printed on the registration card which the student is required to present at the Treasurer's Office. Any student who fails to pay his tuition charges, fees, or other indebtedness to the University within the prescribed period of grace, is dropped from the University unless the Treasurer has granted him an extension of time to complete payment. For such extension the student is assessed a fee of \$5. A fee of \$10 is charged for late payment when no extension has been granted. For further information, consult the *Announcement of General Information* (obtained by writing to Cornell University Announcements, Day Hall).

Tuition or other fees may be changed by the Board of Trustees at any time without previous notice.

CHARGES FOR MINOR DELINQUENCIES

Every student is held personally responsible for any injury done by him to any of the University's property.

Assessments, charged to the student's account and payable at the Treasurer's Office, are levied in certain circumstances, under the following rules of the University:

A matriculated student desiring to register after the close of registration day shall first pay a fee of \$10 and present a letter of permission from the Director of Student Administration.

A student desiring to file his registration of studies after the date set by his college for filing shall first pay a fee of \$10.

A student desiring to take an examination or other test for the removal of a term mark of "absent" or "incomplete" shall first pay a fee of \$2 for each examination or other test.

A student desiring to make an appointment for the required medical examination or conference after twenty days from the last registration day of the term shall pay a fee of \$2.

For reasons satisfactory to the proper authority any of the above mentioned assessments may be waived in any individual case if the student's failure to comply with the regulation was due to ill health or to other reasons beyond his control. Application for such a waiver should be made to the Director of Student Administration.

LIVING COSTS

Living costs cannot be stated with the same degree of certainty as regular University charges, since they depend to a great extent upon the individual's standard of living. Men students spend from \$135 to \$195 a term for room and from \$275 to \$325 a term for board. Laundry, done in Ithaca, may require \$25 to \$40 a term. For undergraduate women, the fixed charge for board and room in the dormitories is \$542.50 a term.

Books, instruments, and supplies will cost \$75 to \$100 a term.

Additional allowance must be made for clothing, travel, and incidentals.

FINANCIAL AIDS

Applications for the Scholar Incentive Program should be filed before July 1 for each academic year but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. *Annual* application is required.

UNDERGRADUATE SCHOLARSHIPS

Needy undergraduate students who have done well scholastically may receive help from various scholarship funds. Discretion over the amount of money granted is vested in committees of the University, who evaluate the merits of the applicants. Students interested in financial aid should inquire at the Office of Scholarships and Financial Aid, Day Hall. There are many scholarships and grants-in-aid open to all University undergraduates, as well as several which are specifically for vet-

erinary students. The latter, many of which are prizes, are described in the following pages.

TUITION SCHOLARSHIPS. The trustees have authorized a limited number of scholarships, each of an annual value of \$600, the amount of the annual tuition, to be awarded each year by the Veterinary College. The scholarships are awarded to undergraduate students who show promise of becoming outstanding veterinarians in the judgment of the faculty and who are not residents of New York State. Each student holding a scholarship must maintain a standing satisfactory to the faculty.

VALENTINE MOTT KNAPP SCHOLARSHIP. This annual scholarship of the value of \$700 was established through the will of David V. Knapp as a memorial to his brother, Dr. Valentine Mott Knapp, '04. By action of the faculty, the award is to be made each year to a qualified applicant at the completion of his third year's work. Students who wish to be considered for this scholarship should make application to the Committee on Scholarships not later than March 1. In awarding the scholarship, the faculty will take into consideration the ability of the applicant to do creditable academic work, the personal characteristics of the applicant with respect to professional attitude, and his financial need.

YONKERS RACEWAY FOUNDATION SCHOLARSHIP. By action of the executive committee of the Yonkers Raceway Foundation, an endowed scholarship of \$300 was established at the Veterinary College to be awarded by the Committee on Scholarships of the College to a needy student who is a resident of New York State. Students who wish to be considered for this scholarship should make application to the Committee on Scholarships not later than March 1. The same criteria will be used in awarding this scholarship as are used in selecting the candidates for the Valentine Mott Knapp scholarship.

EASTERN MILK PRODUCERS COOPERATIVE SCHOLARSHIP. This scholarship of \$250 was established in February, 1961, and was awarded for the first time in the 1961-62 academic year. The purpose is to assist a worthy student in the Veterinary College with preference to be given to sons or daughters of members of Eastern Milk Producers Cooperative Association. In order to qualify, a student must rank in the upper two-fifths of his class in college. He must have an established need for financial assistance and show evidence of outstanding character and leadership ability.

DAVID KENNEDY JOHNSTON SCHOLARSHIPS. Under the will of Nettie J. Huey, funds were set aside to provide scholarships from time to time to students in the College of Agriculture or to students in the Veterinary College. Four scholarships of \$550 each are available.

THE KENNEL CLUB OF BUFFALO, INC. SCHOLARSHIP. Started in 1965 The Kennel Club of Buffalo will offer this scholarship annually for five years to a deserving student from Western New York. The amount of the scholarship is \$100.

THE MAURICE H. SKYER MEMORIAL SCHOLARSHIP. Provided by the Monticello Chapter of the U. S. Harness Writers Association, this scholarship of \$300 is to be awarded to a student from Orange, Sullivan, Ulster, Delaware or Dutchess County who is interested in working with horses. The scholarship is awarded for use in the fourth year.

MARIE HEYE CLEMENS FOUNDATION SCHOLARSHIP. This fund was established in 1965 to support one or more scholarships for students in the New York State Veterinary College. First preference will be given to needy and worthy scholarship candidates entering their final year of study. As an effort to perpetuate the award, the Scholarship Committee encourages recipients to return part or all of their scholarship awards as alumni gifts to the Scholarship Fund at such time as they are financially able to do so.

LOAN FUNDS

Sources of support available for loans to Veterinary College students are as follows: the Cornell Veterinary Alumni Association; the New York State Veterinary Medical Society; the family of David E. Wright '12; the Dean W. A. Hagan Fund; the Munderback Veterinary Fund; the Sunderville Veterinary Fund; and the Charles H. Webster Veterinary Fund. Veterinary students are also eligible to apply for loans from other funds held by the University. All of these are administered through the Office of Student Aid. Students who are in real need should not hesitate to apply for assistance. It is suggested that students discuss their needs with the Director of Student Administration before applying.

PRIZES

Cornell University has been given a considerable number of funds for the endowment of prizes to be awarded annually to enrolled students. Some of these prizes are open to competition by students of the University generally. The University publishes a list of them and requests for copies should be addressed to the Office of the Dean of the University Faculty, Day Hall.

Prizes open to competition only by students of the Veterinary College are as follows:

THE BORDEN VETERINARY SCHOLARSHIP AWARD was established by the Borden Company Foundation, Inc., in 1945. It consists of an annual award of \$300 to be made to the member of the fourth-year class in veterinary medicine who attained the highest scholastic record

in all veterinary studies prior to the final year. The award will be paid to the recipient during the fall term of the final year. In the event that the Dean finds it inappropriate to make the award in any one year, the award may be deferred, but only one award shall be made in any succeeding year.

THE HORACE K. WHITE PRIZES, established by Horace K. White of Syracuse, are awarded annually to meritorious students in the graduating class of the College. They consist of a prize of \$125 to the first in merit and a prize of \$75 to the second in merit.

THE GRANT SHERMAN HOPKINS PRIZE of \$75 in veterinary anatomy was endowed by Mrs. Ann Ottaway Hopkins in 1955 in memory of her husband. Dr. Hopkins served Cornell University for forty-five years (1889 to 1934). Upon the opening of the Veterinary College in 1896, he became a member of the original faculty as Assistant Professor of Veterinary Anatomy and Anatomical Methods. He was made a full professor in 1903 and served in that capacity until his retirement in 1934.

The prize will be awarded by the Veterinary College faculty upon the recommendation of the staff of the Department of Veterinary Anatomy. It will be awarded to a member of the graduating class on the basis of interest, ability, perseverance and performance in the work in veterinary anatomy. Special consideration will be given to extracurricular work in animal morphology. Although scholarship is an important consideration, the award is not based wholly on that.

THE JANE MILLER PRIZE of \$75 in physiology is awarded to the student or students doing the best work in this subject. The prize is usually divided into two prizes and is awarded at the end of the second year.

THE JAMES GORDON BENNETT PRIZE of \$90 is awarded to members of the graduating class. The award is based upon the work in the clinics giving evidence of the ability of the recipient to handle diseased animals humanely. Special emphasis is laid upon the ability of the student to apply effectively local and general anesthesia.

THE ANNE BESSE PRIZE of \$75 is awarded in the principles and practice of veterinary medicine. This award is based upon the work in the clinics giving evidence of ability in clinical diagnosis.

THE CHARLES GROSS BONDY PRIZES. Two annual prizes are awarded to the two fourth-year students who rank highest in proficiency in the courses in practical medicine and surgery of small animals. The first prize is \$50, and the second prize is \$25.

THE MARY LOUISE MOORE PRIZE IN BACTERIOLOGY was established by a bequest of Dr. Veranus A. Moore in honor of his wife. Dr. Moore was a member of the original faculty of the Veterinary Col-

lege. He was Professor of Pathology, Bacteriology, and Meat Inspection from 1896 to 1926, and Dean of the Veterinary College from 1907 to 1929.

The income of the endowment (\$75) may be awarded each year, upon recommendation of the head of the Department of Microbiology and with the approval of the Dean of the College, either as a prize to students who have done the best work in the department or as a subsidy to encourage individual research work of students by defraying expenses of their experiments.

THE POULTRY DISEASE PRIZE was established by Dr. Nathan Wernicoff, '31, and Dr. Tevis Goldhaft, '35, of Vineland, N.J., for the purpose of stimulating interest in diseases of poultry. The prize consists of \$50 for the best composition or essay, or the best original work reported, by a member of the fourth-year class. Competing papers must be submitted not later than the first week of the second term of the college year to the Dean, who will appoint a suitable committee to read them and make recommendations on the award. The award will not be made if, in the judgment of the committee, none of the papers submitted is considered to be sufficiently meritorious.

THE ALPHA PSI PRIZE is given by Beta (Cornell) Chapter of the Alpha Psi Fraternity. It was suggested by the donors that this prize, a \$25 U.S. Savings Bond, be "awarded by the faculty to a member of the fourth-year class who has shown by his scholarship, personality, character, and breadth of interest that he is capable of elevating the prestige and expanding the services of veterinary science in practice, in education, and in its relationship to community, state, and national welfare."

NEW YORK STATE VETERINARY MEDICAL SOCIETY PRIZES, established by the New York State Veterinary Medical Society, consist of three cash awards of the value of \$50, \$30, and \$20, respectively. They are awarded to members of the fourth-year class who present and have approved the best case reports. The award extends from April 1 to March 31. All case reports to be considered must be received at the office of the Chairman of the Committee of Senior Seminar Course 899, by March 31. Each case report must be reviewed and approved by the head of the department in which the case was received, studied, and treated, or by a person in the department designated by him. The Executive Board of the New York State Veterinary Medical Society reserves the privilege of requesting any prize recipient to furnish either a copy of his paper or an abstract for publication in the organ of the society, *Veterinary News*.

THE WOMEN'S AUXILIARY A.V.M.A. PRIZE of \$50 is awarded annually to a senior student for a special contribution which advances the standing of the Veterinary College on the campus by special contributions of an extracurricular nature.

THE JACOB TRAUM STUDENT AWARD was established by friends and colleagues at the time of Dr. Traum's retirement as Chief Scientist of the U.S. Department of Agriculture Plum Island Animal Disease Laboratory. Dr. Traum was graduated from Cornell University in 1905 and served the veterinary profession in a variety of capacities, particularly in the U.S.D.A. and at the University of California. The award will be given annually to the senior student in the New York State Veterinary College who is adjudged, by means considered appropriate by the Dean, as having exhibited in his scholastic career superior interest and accomplishments in bacteriology, epizootiology, pathology, and virology, including aptitude for and expressed interest in research on infectious diseases. The prize is a cash award of \$45.

THE MALCOLM E. MILLER AWARD was established in 1965 by Mrs. Mary Wells Miller in memory of her husband, Dr. Malcolm E. Miller ('34), a former Professor of Anatomy and Head of that Department from 1947 to 1960. The recipient is to be a fourth year student who, in the judgment of the Dean and the Director of Student Administration has demonstrated perseverance, scholastic diligence, outstanding improvement and other personal characteristics that will bring credit and distinction to the veterinary profession. The prize is a cash award of \$40.

THE JIM DALE THOMAS MEMORIAL PRIZE was established in 1965. This prize is for the fourth year student who has shown an interest in cattle practice and a high level of capability in this field. The candidate is nominated by the Department of Large Animal Medicine, Obstetrics and Surgery.

THE UPJOHN CLINICAL AWARDS were established in 1966. The Upjohn Pharmaceutical Company offers prizes for unusual proficiency in the Large Animal Clinic and in the Small Animal Clinic. The winners are selected by the staffs of the respective departments. A cash prize of \$200 is divided between the two clinics.

HEALTH SERVICES AND MEDICAL CARE

Health services and medical care for students are centered in two Cornell facilities: the Gannett Medical Clinic (out-patient department) and the Sage Hospital. Students are entitled to unlimited visits at the Clinic. Appointments with individual doctors at the Clinic may be made, if desired, by calling or coming in person. (An acutely ill student will be seen promptly whether he has an appointment or not.) Students are also entitled to laboratory and X-ray examinations indicated for diagnosis and treatment; hospitalization in the Sage Hospital with medical care for a maximum of fourteen days each term and emergency surgical care. The cost of these services is covered in the College and University General Fee.

On a voluntary basis, insurance is available to supplement the services provided by the General Fee. For further details, including charges for special services, see the *Announcement of General Information*.

If, in the opinion of the University authorities, the student's health makes it unwise for him to remain in the University, he may be required to withdraw.

HOUSING FOR STUDENTS

UNDERGRADUATE MEN. Attractive, quiet residence halls for approximately 2,000 men are provided by the University. They are a five-minute walk from the center of the campus and are situated on a fifteen-acre plot to the west of the main campus, overlooking Cayuga Lake to the north and the valley to the southwest. The area is bounded by West, University, and Stewart Avenues and Campus Road. There are two groups of residence halls: the Baker Group and University Halls.

The Baker Group comprises Baker Tower, Founders Hall, North and South Baker Halls, Boldt Hall and Tower, Mennen Hall, Lyon Hall, and McFaddin Hall. The buildings are of fireproof construction and English collegiate in design; they accommodate about 650 men.

University Halls, consisting of six buildings, were opened in 1954 and accommodate 1350 men. They are of modern fireproof construction and offer excellent study, social, and recreational facilities.

Students not assigned to residence halls under direct supervision of the University secure quarters in fraternity houses (for members only), rooming houses, cooperative houses, private homes, or apartments.

An application form for University residence halls will be mailed automatically by the Office of Admissions to each male candidate for admission as a freshman or a transfer student at the time of notification of provisional acceptance to the University. Housing in University residence halls can be guaranteed for entering freshmen students who have been admitted to the University and have filed dormitory applications by June 1.

Cornell men are at liberty to dine wherever they choose; but, within its varied food service program, Cornell offers a special dining arrangement for its student men. This meal plan, which is entirely optional in every way and available to any Cornell man, incorporates many desirable features. It provides for the prepayment of dining fees on a semester basis, and it affords worthwhile savings in food costs. The plan offers a selection of dining rooms: Willard Straight Hall, the student union building; Baker Cafeteria in University Hall, Unit I; the Noyes Lodge on Beebe Lake; the Martha Van Rensselaer Cafeteria; and the Dairy Bar Cafeteria in Stocking Hall. Devised to meet student needs, this dining arrangement encourages good eating habits in comfortable surroundings and a friendly atmosphere; it is designed for economy and convenience and allows for a wide menu selection and a liberal mealtime schedule.

UNDERGRADUATE WOMEN. Cornell University provides comfortable, well furnished residence halls and dining rooms for undergraduate women students. Most undergraduate women whose regular residence is outside the Ithaca area are required to live and take their meals in University residence halls, or in sorority houses (for members only). Information about exceptions to that rule may be obtained from the Office of the Dean of Students.

An application form for living accommodations for undergraduate women will be sent to each candidate by the Office of Admissions with the notice of provisional acceptance to the University.

GRADUATE STUDENTS. The University has two residence halls for graduate students. The Sage Graduate Center accommodates 210 men and women, and Cascadilla Hall houses 160 men. The dining service in the Sage Graduate Center is available to all graduate students and faculty. Graduate students who wish to apply for housing should write to the Department of Housing and Dining Services, 223 Edmund Ezra Day Hall, when their plans to enter the University are complete.

MARRIED STUDENTS. Unfurnished apartments for 400 married students and their families are provided by Cornell in the Cornell Quarters (84 apartments), Pleasant Grove (96 apartments), and Hasbrouck (246 apartments).

Detailed information on all types of housing, including off-campus housing for men and married students, may be obtained by writing the Department of Housing and Dining Services, Edmund Ezra Day Hall.

OFF-CAMPUS HOUSING. All students living off campus must reside in properties that have been approved by the University. Information on approved housing that is currently available may be obtained at the Off-Campus Housing Office in 223 Edmund Ezra Day Hall. Because changes of available accommodations occur daily, it is not practical to prepare lists. If possible, a student should make at least one

trip to Ithaca to look over the available apartments and houses before he plans to take up residence.

DETAILED INFORMATION on all types of housing for students may be obtained by writing to the Department of Housing and Dining Services, Edmund Ezra Day Hall.

THE CONDUCT OF STUDENTS

At all times and in all relationships a Cornell student is expected to conduct himself in a decent and respectable manner and in accordance with the obligation recognized by the student body of unfailing respect for the integrity of the individual and the best interests of the community.

The standards of conduct expected of a Cornell veterinary student are defined by the Student Honor Code and implemented by a Student Judiciary Administrative Board granted initial jurisdiction for student conduct by the Faculty Committee on Student Conduct. A student may at any time be removed from the University if, in the opinion of the Committee, such action is in the University's best interests.

In the Veterinary College a Student Honor Code has been established in recognition of the importance of ethics, honor, and personal integrity in the individual's training for the veterinary profession. The Code places the responsibility for ethical conduct upon the students rather than the faculty. A copy of the Honor Code is given to each student at the time of registration, and it is the student's duty to familiarize himself with the contents of the Code.

A faculty consultant and the Veterinary Faculty Committee on Student Conduct are available to veterinary students for consultation and guidance in occasional instances for referral of disciplinary cases beyond the jurisdiction of the Student Honor Code.

REQUIREMENTS FOR GRADUATION

The prescribed four-year curriculum leading to the degree of Doctor of Veterinary Medicine (D.V.M.) is summarized in the section below. To receive this degree candidates must satisfy all the entrance requirements (pages 22-26), must successfully pursue the courses named in the curriculum below, must have paid all fees due, and must have spent at least one year in residence.

The work of the College is arranged to begin late in September and to close in June. The academic year is divided into two terms.

At the conclusion of each term the Veterinary College faculty will review the records and conduct of students. Unsatisfactory students will be dropped from the College.

THE CURRICULUM

In the following summary of the curriculum, the figure in the first column after the name of the course is the number of the course and refers to a description on one of the following pages: 43-66. The figures in the second and third columns indicate the hours of credit given for the successful pursuit of the several courses in either term. The abbreviation "Req." indicates that a course, or its equivalent, is required for graduation but that no formal credit is given for the course. A student is required to carry the number of credit hours scheduled for each term of study. If he has advanced credit for a course or courses, suitable elective subjects of approximately equivalent credit shall be substituted with the approval of the student's adviser.

FIRST YEAR

	Course number	Credit	
		Fall term	Spring term
Anatomy	501	7	—
Anatomy	502	—	6
Neuroanatomy	505	—	2
Developmental Anatomy and Histology	507	4	—
Microscopic Anatomy	508	—	4
Animal Husbandry	100	3	—
Physiological Chemistry	510	6	—
Animal Genetics	424	—	2
Animal Husbandry	311	—	3
Physiology	511	—	3
Total		20	20

SECOND YEAR

	Course number	Credit	
		Fall term	Spring term
Applied Radiation Biology	621	1	—
Physiology	610	3	—
Experimental Physiology	611	3	—
Bacteriology and Immunology	640	4	—
Bacteriology and Immunology Laboratory	641	5	—
General Pathology	630	2	—
General Pathology Laboratory ..	631	2	—
Special Pathology	632	—	2
Special Pathology Laboratory	633	—	2
Animal Parasitology	635	—	2
Pharmacology	612	—	6
Toxicology	613	—	1
Food Quality Control	634	—	3
Clinical Pathology	636	—	2
Roentgenology	670	—	1
Obstetrics	671	—	3
		20	22
Total			

THIRD YEAR

	Course number	Credit	
		Fall term	Spring term
Applied Anatomy	703	1	—
Applied Parasitology	731	3	—
Clinical Orientation	790	1	—
Diseases of Large Animals	771	5	—
Epidemiological Methods	740	2	—
Food Quality Control	730	2	—
General Surgery	773	4	—
Obstetrics	770	3	—
Small Animal Medicine	760	3	—
Surgical Exercises	774	1	—
Applied Anatomy	704	—	1
Clinical Orientation	791	—	2
Diseases of Large Animals	772	—	2
Diseases of Poultry	750	—	3
Infectious Diseases	741	—	3
Small Animal Medicine	761	—	3
Small Animal Surgery	762	—	4
Special Surgery	775	—	5
Surgical Exercises	763	—	1
		25	24
Total			

42 REQUIREMENTS FOR GRADUATION

FOURTH YEAR

	<i>Course number</i>	<i>Credit</i>	
		<i>Fall term</i>	<i>Spring term</i>
Senior Seminar	898	Req	—
Diseases of Large Animals	870	5	—
Clinics:			
Ambulatory	894	4	—
Ancillary	896	4	—
Large Animal	892	4	—
Small Animal	890	4	—
Senior Seminar	899	—	Req
Diseases of Large Animals	871	—	4
Jurisprudence, Ethics, and Business Methods	872	—	1
Clinics:			
Ambulatory	895	—	4
Ancillary	897	—	4
Large Animal	893	—	4
Small Animal	891	—	4
Total		<hr/> 21	<hr/> 21

DESCRIPTION OF COURSES

In the following pages a list of the teaching departments of the College is given. Under each department heading, brief descriptions of the courses offered will be found. Most of these courses are a part of the veterinary curriculum; a few are elective to veterinary students or are given primarily for graduate students or students of other colleges of the University.

The clinics are operated by several departments. A brief statement about the particular clinical work of each department concerned will be found in the general description of the activities of that department. A general statement of the operation of the clinics, with courses and numbers, is given under a special heading, following the departmental descriptions. Finally, there is a listing of courses given by other colleges as a part of the veterinary curriculum.

For courses in other colleges available to all Cornell students consult the appropriate college Announcement.

ANATOMY

Professors R. E. Habel, H. E. Evans; Associate Professors N. H. Björkman, A. de Lahunta, W. O. Sack; Assistants B. W. Gray, V. Molony.

501. GROSS ANATOMY

First year, fall term. Credit seven hours. Lecture, M 9. Conference, W 9. Laboratory, M 10-1, T 10-1, Th 10-1, F 11-1, S 9-12. Professor Evans; Associate Professor de Lahunta; Assistant B. W. Gray. Prerequisite, course work equivalent to that required for admission to the Veterinary College. A limited number of non-veterinary students will be admitted by permission.

The structure of a typical mammal is studied by detailed systematic and regional dissection of the dog. The basic features of avian anatomy are studied by a dissection of the chicken. The lectures, supplemented by demonstrations, consider the comparative and regional gross aspects of vertebrate organ systems, anatomical terminology, literature, and techniques, and the specific morphology of the dog.

Each student is required to make a deposit of \$20 for a disarticulated dog skeleton.

502. GROSS ANATOMY

First year, spring term. Credit six hours. Lecture, F 9. Laboratory, M 2-4:30, T 10-12:30, W 2-4:30; F 2-4:30, S 9-11:30. Associate Professor Sack; Assistant V. Molony. Prerequisite, Anatomy 501 or Zoology 321-322.

Regional anatomy of the horse, cow, sheep, and swine.

505. NEUROANATOMY

First year, spring term. Credit two hours. Lecture Th 10. Laboratory, F 10-12:30. Associate Professor de Lahunta, Assistant Gray.

A morphological and functional study of the central nervous system of the domestic animals.



A class in veterinary anatomy.

507. DEVELOPMENTAL ANATOMY AND HISTOLOGY

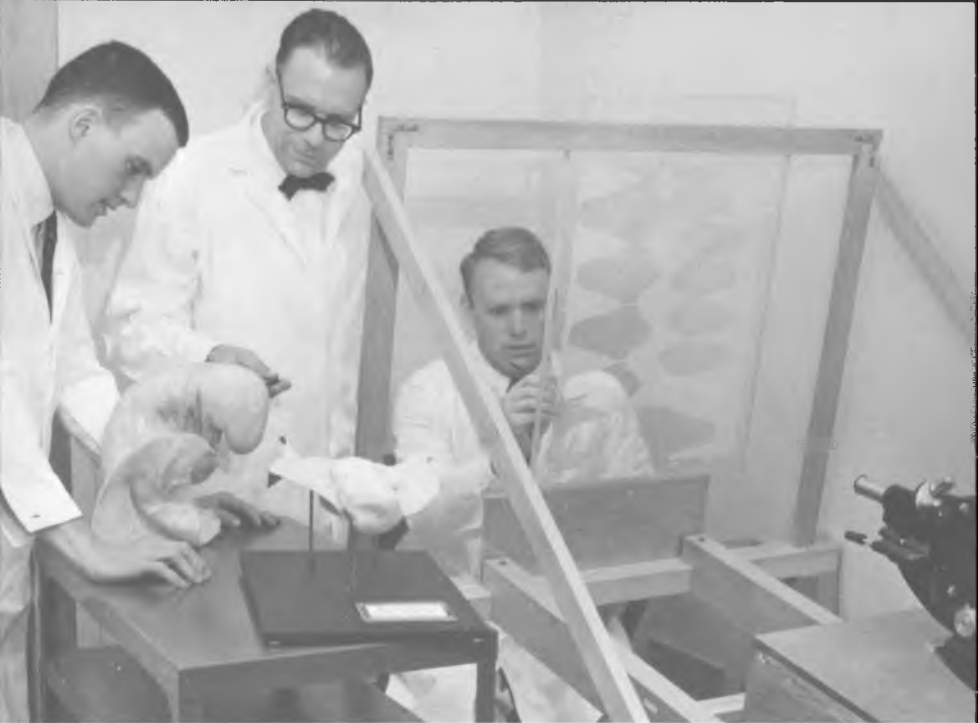
First year, fall term. Credit four hours. Lectures, T Th 9. Laboratory, W F 2-4:30. Associate Professors de Lahunta, Björkman; Assistant Molony. Prerequisites, course work equivalent to that required for admission to the Veterinary College, plus completion of or concurrent registration in Veterinary Anatomy 501 or 900, or Zoology 321. A limited number of non-veterinary students will be admitted by permission of the instructor.

The study of development is designed to provide a foundation for the understanding of definitive anatomy, the genetic and functional relationships of the tissues, and reproductive physiology. Students are provided with serial sections of the chick and pig for laboratory use. The biology of the cells and tissues is illustrated with material taken from the domestic animals.

508. MICROSCOPIC ANATOMY

First year, spring term. Credit four hours. Lectures, M W 9. Laboratory, M W 10-12:30. Associate Professor Björkman; Assistant Gray. Prerequisites, Veterinary Anatomy 507 plus completion of or concurrent registration in Veterinary Anatomy 502 or 900 or Zoology 322. A limited number of non-veterinary students will be admitted by permission of the instructor.

The microscopic structure of the organs and the morphologic evidence of their function are described and illustrated with preparations from the



Wax plate reconstruction of the embryo (Department of Anatomy).

domestic animals. In the lectures, the relationship of normal morphology to veterinary physiology and pathology is emphasized.

ADVANCED ANATOMY

605. Fall term. Hours and credit to be arranged.

606. Spring term. Hours and credit to be arranged.

Professors Habel and Evans; Associate Professors Sack and de Lahunta. Prerequisites Anatomy 501, 502, 507, and 508 or similar preparation in comparative anatomy and histology.

An opportunity for advanced study under personal direction.

APPLIED ANATOMY

703. Fall term, 3rd yr. Credit one hour. Laboratory, T 10-12:30 or Th 10-12:30 or S 10-12:30.

704. Spring term, 3rd yr. Credit one hour. Laboratory T 2-4:30 or Th 2-4:30. Professor Habel.

An opportunity for practice in the recognition of the anatomical features that are essential to diagnostic, surgical, obstetrical, and postmortem procedures. The approach is topographical, comparative, and clinical. The emphasis is on the study of living animals, supplemented by dissections, serial transections, models, and radiographs.

900. VERTEBRATE MORPHOLOGY

Fall term. Credit three hours. Lecture, W 1-2. Laboratory W F 2-4:30. Professor Evans. Prerequisite, zoology or biology.

Designed primarily for graduate students in animal husbandry, nutrition, conservation, and zoology, although undergraduates may register by permission. Laboratory assignments include the dissection of the dog, cow, and chicken. Facilities are available to embalm and dissect other species if desired. Lectures and demonstrations of the phylogeny, structure, and function of vertebrate organ systems supplement the laboratory work.

PHYSIOLOGY

Professors A. F. Sellers, C. E. Stevens, E. N. Bergman; Associate Professors A. Dobson, L. L. Nangeroni, J. F. Wootton; Assistant Professors M. W. Anders, A. L. Aronson; Assistants F. A. Ahrens, J. W. Chittick, M. L. Katz, G. A. Maylin, W. E. Spomer, S. O. Thorlacius, H. L. Trenholm; Teaching Associate W. Fuerst; Research Fellow J. M. Skydsgaard.

The following fields of activity are covered in the work of the department: physiological chemistry, physiology, pharmacology, and toxicology.

310. ANIMAL PHYSIOLOGY

Spring term. Credit three hours. M W F 10. Associate Professor Nangeroni. Prerequisites, one year of biology or zoology and college courses in chemistry.

Lectures and demonstrations arranged especially for students of agriculture but open to others.

510. PHYSIOLOGICAL CHEMISTRY

First year, fall term. Credit six hours. Lectures and recitations M W 8, Th 2-4:30, F 9. Laboratories M T 2-4:30. Associate Professor Wootton and assistants. Prerequisites, course work equivalent to that required for admission to the Veterinary College. A course in quantitative analysis, and additional hours of organic chemistry would be helpful.

This is a course in general biochemistry with emphasis upon the mammalian system. The laboratory is devoted to study of the chemical properties of biological materials and also to instilling a working knowledge of the elements of quantitative analysis, which is necessary for the performance of clinical biochemical determinations.

511. PHYSIOLOGY

First year, spring term. Credit three hours. T Th F 8. Professors Bergman, Sellers, Stevens; Associate Professors Dobson and Nangeroni. Prerequisites, Physiology 510, Anatomy 501 and 502, or Anatomy 900 or Zoology 321-322 and Biochemistry 401.

Lectures and demonstrations on cellular physiology, muscle, nervous system, digestive system, urine secretion, blood and lymph.

610. PHYSIOLOGY

Second year, fall term. Credit three hours. T Th F 8. Professors Bergman and Sellers. Prerequisite, Physiology 511.

Lectures and demonstrations on circulation, respiration, endocrine organs, temperature regulation, and reproduction.

611. EXPERIMENTAL PHYSIOLOGY FOR VETERINARY STUDENTS

Second year, fall term. Credit three hours. Laboratory, T Th 9-12:30. Professor Stevens and assistants. Prerequisites, same as for Physiology 511. (Graduate students register for Course 914).



Studying the action of the rumen; fiber glass model on the table (Department of Physiology).

612. PHARMACOLOGY

Second year, spring term. Credit six hours. Lectures T 8, W 9, F 9. Laboratory M 11-5. Conference M 8. Assistant Professors Aronson and Anders. Prerequisites, Anatomy 501, 502, 505, 507, 508; Physiology 510, 511, 610, 611; Pathology 630 and 631 or consent of the instructors.

The primary emphasis of this course is on the physiological disposition and mechanism of action of drugs.

613. TOXICOLOGY

Second year, spring term. Credit one hour. Lecture M 10. Assistant Professors Aronson and Anders. Prerequisites, same as for Physiology 612.

The basic aspects of some of the more common poisonings that affect domestic animals will be considered. Emphasis will be placed on heavy metal poisonings, chelation phenomena, selected organic poisonings, pesticide poisonings, and forensic considerations.

SPECIAL PROBLEMS IN PHYSIOLOGY

910. Fall term. Hours arranged. Registration by permission.

911. Spring term. Hours arranged. Registration by permission.

Laboratory work, conferences, collateral reading, and reports, adapted to the needs of students.

RESEARCH

912. Fall term, graduate students. Hours arranged.

913. Spring term, graduate students. Hours arranged.

914. EXPERIMENTAL PHYSIOLOGY FOR GRADUATE STUDENTS

Spring term. Credit three hours. Alternate years. Offered in 1967. Laboratory W F 1-4. Associate Professor Nangeroni. Prerequisites same as for Physiology 511, co-registration in Physiology 511. Registration limited. Consent of instructor required.

PHYSICAL BIOLOGY

Professors C. L. Comar, E. L. Gasteiger, Jr., F. W. Lengemann (on leave), R. H. Wasserman; Associate Professors P. H. Craig, J. R. Georgi, D. N. Tapper; Assistant Professors A. P. Casarett, F. A. Kallfelz, J. C. Thompson, Jr.; Research Associates R. Z. Korman, A. N. Taylor; Research Specialist R. A. Wentworth; Assistants P. J. Bredderman, A. L. Brooks, A. A. Buerger, R. A. Corradino, J. G. Ebel, D. L. Hirabayashi, R. J. Ingersoll, H. Kasprzak, H. Moraff, R. L. Morrissey, J. Rothmeier.

The department is well equipped for advanced work in the applications of radiation and physical methods to problems of animals and biological research.

621. APPLIED RADIATION BIOLOGY

Second year, fall term. Credit one hour. W 9-10. Associate Professor Georgi.

Lectures and demonstrations on the nature of radiation, biological effects, veterinary applications, and monitoring procedures.

920. ELEMENTS OF PHYSICAL BIOLOGY

Fall term. Credit three hours. T Th F 11. Prerequisites, basic courses in chemistry, physics, biology and calculus, or consent of the instructor. Professor Comar and staff.

Lectures on atomic, molecular and cellular aspects of matter; physio-chemical concepts in biology; membrane phenomena; mathematical approaches; compartmental analysis; tissue culture; informational macromolecules; biological coding and control.

921. RADIOISOTOPES IN BIOLOGICAL RESEARCH PRINCIPLES AND PRACTICE

Spring term. Credit four hours. Lectures, T Th 11. Laboratory M T or W 1:30-5. Prerequisites, a course in quantitative chemistry and permission of instructor. Professor Comar and staff.

Lectures, demonstrations, and laboratory on the fundamentals of atomic energy procedures and applications to biological research.

922. BIOLOGICAL EFFECTS OF RADIATION

Fall term. Credit 3 hours. T Th 10, Lab. Th 1:30-5. Assistant Professor Casarett.

Lectures and demonstrations on radiation physics, radiation chemistry, radiation effects at the cellular level, radiation effects in multicellular organisms, genetic effects of radiation, and radioprotective and radiomimetic substances.

923. BIOLOGICAL MEMBRANES AND NUTRIENT TRANSFER

Spring term. Credit two hours. Lectures (time to be designated). Prerequisites, animal or plant physiology, quantitative and organic chemistry, physics, and



Positioning a lamb in the total body counter (Laboratory of Radiation Biology, Department of Physical Biology).

consent of instructor. Cellular physiology and elementary physical chemistry desirable. Professor Wasserman.

An introduction to elementary biophysical properties of biological membranes, theoretical aspects of permeability and transport, and mechanism of transfer of inorganic and organic substances across intestine, placenta, kidney, erythrocytes, bacteria, and other biological systems.

924. FUNCTIONAL ORGANIZATIONS OF THE NERVOUS SYSTEM

Fall term. Credit three hours for lecture, two hours for laboratory. Lectures M W F 10. Laboratory, W 1-5 bi-weekly. Prerequisites, physiology, organic chemistry, physics, and/or consent of instructor. Physical chemistry and neuro-anatomy desirable. Professor Gasteiger.

Function of the nervous system will be considered primarily from an electrophysiologic viewpoint. Where appropriate, important studies of reflexology, chemical and feedback control, and comparative anatomy will be utilized. Laboratory studies will include electrical activity of cells, reflexes, decerebrate rigidity, acoustic microphonic response, subcortical stimulation, and evoked and spontaneous cortical activity.

925. QUANTITATIVE ASPECTS OF RADIATION AND PHYSICAL BIOLOGY

Fall term. Not offered in fall, 1966. Credit two hours. T Th 11-12. Enrollment limited.

Methods of dealing with quantitative aspects of radiation and physical biology, including a review of fundamentals of mathematics, elementary statistics, and an introduction of calculus with emphasis on applications to problems in radiation phenomena and biological kinetics.

926. PHYSICAL BIOLOGY GRADUATE SEMINAR

Fall and spring terms. Credit one hour. Professor Comar and staff.

927. SEMINAR—SPECIAL TOPICS IN PHYSICAL AND RADIATION BIOLOGY

Fall and spring terms. Credit hours variable. Assistant Professor Casarett.

PATHOLOGY

Professors C. G. Rickard, J. H. Whitlock, [J. Bentinck-Smith, C. I. Boyer, Jr., L. P. Krook, on sabbatic, 1966-67], Acting Professor M. M. Benjamin (spring term, 1967); Associate Professors F. Noronha, J. R. Georgi, H. J. Olander; Acting Director of the Diagnostic Laboratory, A. Zeissig; Research Oncologist J. E. Post; Research Associates E. L. Savage, E. A. Holzinger, R. Turnquest; Assistants C. S. Hacker, L. F. LeJambre, J. O. D. Slocombe, E. Dougherty III, D. H. Percy. Also S. A. Benjamin, W. R. Brown, R. W. Norrdin, J. D. Strandberg, and P. C. Estes.

The laboratories of the department are well equipped with modern apparatus providing opportunity for advanced work, for those students who are properly prepared, in gross and microscopic pathology, clinical pathology, immunology, oncology, electron microscopy, and parasitology. The department operates one diagnostic laboratory for general diagnostic work, to which a great deal of pathological material and many blood samples for serological testing come from all parts of the state. In addition, a teaching laboratory of clinical pathology is operated to service the clinics of the college.

These laboratories furnish an abundance of fresh materials for teaching and research in animal diseases. The clinics and the routine autopsies also furnish material.

The following courses are required in the curriculum of the Veterinary College and are given particularly for veterinary students. When there is room for them, properly prepared students of other colleges will be admitted, but permission to register must be obtained in each case.

630. GENERAL PATHOLOGY LECTURES

Second year, fall term. Credit two hours. M F 9. Professor Rickard. Prerequisites, Anatomy 507 and 508 or equivalent histology courses. In addition, it is desirable that the student shall have had at least one year's work in anatomy and physiology. In special cases of students who are majoring in biology and expect to take no further work in pathology, these prerequisites may be waived in part. When this is done, the course will not be accepted as a prerequisite for other courses.

631. GENERAL PATHOLOGY LABORATORY

Second year, fall term. Credit two hours. Section I, M 10-12:30, F 10-12:30. Section II, W 10-12:30, S 9-11:30. Professor Rickard. Course 630 must be taken simultaneously or have been completed previously.

632. SPECIAL PATHOLOGY LECTURES

Second year, spring term. Credit two hours. T Th 9. Associate Professor Olander. Prerequisite, Course 630.

633. SPECIAL PATHOLOGY LABORATORY

Second year, spring term. Credit three hours. Section I, T W F 2-4:30, F 10-12:30. Section II, W F 10-12:30, T 2-4:30. Associate Professor Olander. Course 632 must be taken simultaneously or have been completed previously. Work in hematology is included.

FOOD QUALITY CONTROL

634. Second year, spring term. Credit three hours. M W 8, T 10-12:30.

730. Third year, fall term. Credit two hours. F 11, 2-4:30.

Dr. Turnquest and staff.

Veterinary inspection to control quality and wholesomeness of meat, meat food, dairy, fish, and poultry products and to study dairy farms and plants in which these products are produced, processed, manufactured, stored, etc. Certain parts of the course are given by members of the Departments of Poultry Husbandry, Dairy and Food Science, and Animal Husbandry of the College of Agriculture, and the Department of Large Animal Medicine, Obstetrics and Surgery of the Veterinary College.

635. ANIMAL PARASITOLOGY

Second year, spring term. Credit two hours. Th 11, 2-4:30. Professor Whitlock. Prerequisites, zoology or biology.

A systematic study of the helminth and arthropod parasites of domestic animals with particular emphasis on the identification of bionomics of the forms of veterinary importance.

636. CLINICAL PATHOLOGY

Second year, spring term. Credit two hours. Lecture S 8; Laboratory Sec. I, W 2-4:30; Sec. II, W 10-12:30. Professor Benjamin (1967).

The application of the techniques of hematology, urinalysis, serology, clinical microbiology, cytology, and other laboratory procedures in diagnosis; the biochemical changes in the blood and other fluids in disease; the study of pathological alterations in clinical cases. Prerequisite, Courses 632 and 633, taken previously or concurrently. Students from other Colleges may be admitted by special permission, without these prerequisites.

APPLIED PARASITOLOGY

731. Third year, fall term. Credit two hours. Lecture M 10, T 1:30-2:30. Laboratory, Sec. I, T 10-12:30; Sec. II, T 2:30-5; Sec. III, Th 10-12:30. Associate Professor Georgi. Open only to veterinary students. Prerequisite Course 635.

An organized study of the parasitic diseases of domestic animals with particular emphasis on the features of diagnostic importance. Special attention will be given to the laboratory and post-mortem techniques that are of value in applied parasitology.

930. PATHOLOGY SEMINAR

Fall and spring terms. No credit. Required of all graduate students in pathology. Undergraduate students are admitted.

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931. PATHOLOGY OF NUTRITIONAL DISEASES

Spring term. Credit three hours. Lecture and laboratory. Hours to be arranged. Professor Krook. Designed primarily for graduate students of nutrition. Prerequisites, 630 and 631.

ADVANCED WORK IN ANIMAL PARASITOLOGY

932. Fall term. Credit one to three hours, by arrangement.

933. Spring term. Credit one to three hours, by arrangement.

Professor Whitlock and Associate Professor Georgi. Prerequisite, Course 635. For advanced undergraduate and graduate students.

Special problems concerned with the parasites of domestic animals.

LABORATORY METHODS OF DIAGNOSIS

934. Fall term. Credit one to three hours, by appointment.

935. Spring term. Credit one to three hours, by appointment. Prerequisites, Courses 632 and 641 or 340. Graduate students.

Instructions and practice in the application of pathological methods for the diagnosis of disease.

ADVANCED WORK IN PATHOLOGY

936. Fall term. Credit one to three hours, by appointment.

937. Spring term. Credit one to three hours, by appointment.

Properly prepared students may undertake special problems or receive special assignments.

938. REPRODUCTIVE PATHOLOGY

Fall term. Credit two hours. Lecture and laboratory. Hours to be arranged. Professor McEntee. Prerequisites, Courses 630, 631, 632, and 633.

MICROBIOLOGY

Professors D. W. Bruner, G. C. Poppensiek, J. A. Baker, J. H. Gillespie, B. E. Sheffy (on sabbatic, 1966-67), A. J. Winter; Associate Professors L. E. Carmichael, K. M. Lee, N. L. Norcross; Assistant Professors R. F. Kahrs, S. G. Campbell; Research Associate C. G. Fabricant; Assistants C. K. Csiza, R. W. Dellers, D. F. Holmes, D. E. Kahn, F. W. Scott, T. E. Walton.

Courses 640, 641, 740, and 741 are required in the curriculum of the Veterinary College and are given particularly for veterinary students. Permission for students of other colleges to register in these courses must be obtained in each case.

The other courses are not a part of the regular veterinary curriculum. They are available to graduate and to undergraduate students who have obtained the proper prerequisite training. Permission to register must be obtained by all students electing these courses.

340. PATHOGENIC BACTERIOLOGY

Spring term of odd years. Credit 4 hours. T Th 1:40-5. Professors Gillespie and Winter. Includes microbiology, virology, and immunology.



Examining virus-infected monolayer cultures of living kidney tissue grown on glass (Tissue Culture Laboratory, Department of Microbiology).

640. BACTERIOLOGY AND IMMUNOLOGY

Second year, fall term. Credit four hours. M T W Th 1:30. Professors Bruner and Baker and Associate Professor Carmichael. Includes general and pathologic microbiology, virology, and immunology.

641. BACTERIOLOGY AND IMMUNOLOGY LABORATORY

Second year, fall term. Credit five hours. M T W Th 2:30-5; F 2-4:30. Professor Bruner, Associate Professor Carmichael, and assistants. Open to students who have taken or are taking Course 640 or its equivalent.

740. EPIDEMIOLOGICAL METHODS

Third year, fall term. Credit 2 hours. W F 10. Assistant Professor Kahrs. A lecture course dealing with health and disease from a herd, flock, community, or population standpoint and emphasizing the use of knowledge about etiology, transmission, and distribution of disease in the development of preventive measures and control programs.

741. INFECTIOUS DISEASES

Third year, spring term. Credit three hours. M W F 10. Professor Poppensiek. Prerequisites, Courses 632 and 640.

941. SEROLOGY

Spring term of even years. Credit two hours. One hour, T 2-4:30, and one hour to be arranged. Professor Bruner. Limited to *eight* students, with preference given to graduate students. Permission to register must be obtained before the end of the preceding (fall) term.

Includes complement fixation, agglutination complement absorption, hemagglutination inhibition, precipitation, neonatal isoerythrolysis, and the antigenic analysis of *Salmonella* cultures. Prerequisites, Courses 340 or 640, and 641.

ADVANCED WORK IN BACTERIOLOGY, VIROLOGY,
OR IMMUNOLOGY

942. Fall term. Credit one to three hours, by arrangement.

943. Spring term. Credit one to three hours, by arrangement.

Properly prepared students may undertake special problems or receive special assignments.

944. IMMUNOCHEMISTRY

Spring term. Credit three hours. Lecture and laboratory. Hours to be arranged. Associate Professor Norcross. Lectures include quantitative aspects of the antibody-antigen reaction, physical and chemical properties of antibodies and antigens, the mechanisms of hypersensitivity, and tissue immunity. Laboratory experiments illustrate the phenomena covered in the lectures and familiarize the student with selected immunochemical technics. Registration by permission.

945. ANIMAL VIROLOGY

Spring term of odd years. Credit 3 hours. Two lectures and one discussion section. Hours to be arranged. Associate Professor Carmichael and staff. Lectures will include the biology of animal viruses with emphasis on topics



The Poultry Disease Diagnostic Laboratory in the Department of Avian Diseases, the largest of five such laboratories in New York.

of general significance. Veterinary courses 340 or 630 and 640 are considered prerequisites, except under special circumstances. Permission to register required.

946. MICROBIOLOGY SEMINAR

Fall and spring terms. No credit. W 12-1. Professor Winter. Required of all graduate students. Undergraduate students are admitted.

LABORATORY METHODS OF DIAGNOSIS

947. Fall term. Credit one to three hours, by arrangement.

948. Springs term. Credit one to three hours, by arrangement.

Prerequisites, Courses 340, or 633 and 641. Instructions and practice in the application of bacteriological, and serological methods for the diagnosis of disease.

AVIAN DISEASES

Professors S. B. Hitchner, P. P. Levine, J. Fabricant, M. C. Peckham; Associate Professor B. W. Calnek; Assistant J. L. Spencer.

The department maintains a poultry disease diagnostic clinic at the college and four regional diagnostic laboratories in different parts of the state. These laboratories supply fresh material for teaching and research purposes. Adequate facilities existing at the college and at the poultry disease research laboratory on Snyder Hill provide opportunities for advanced study for properly qualified students. A respiratory disease-free breeding flock and a poultry disease isolation building are available for studies on most of the infectious and other diseases of poultry.

750. DISEASES OF POULTRY

Third year, spring term. Credit three hours. T Th 10, F 2-4:30. Professor Levine.

Required of veterinary students. Diseases of domestic poultry and other birds are studied with special emphasis on differential diagnosis and control. Fresh and preserved specimens from the Poultry Diagnostic Clinic are presented during the laboratory period.

450. POULTRY HYGIENE AND DISEASE

Fall term, alternate years. Not offered in fall, 1965. Credit two hours. Lecture and laboratory, Th 1:40-4. Dr. Spencer. Prerequisites, Animal Physiology 10 or Human Physiology 303, and General Bacteriology 3.

An introductory course in poultry disease intended primarily for students in the College of Agriculture.

SMALL ANIMAL MEDICINE AND SURGERY

Professors E. P. Leonard (on leave until Dec. 30, 1966), R. W. Kirk; Associate Professor G. E. Ross, Jr., Assistant Professor J. A. Mulnix; Medical Internes S. I. Bistner, W. B. Butler, T. M. Neal.

The instruction consists of lectures, recitations, and laboratory work. The small animal clinic furnishes abundant material for instruction in applied therapeutics of these animals, including the surgical as well as



Courses in surgery are given to third- and fourth-year students after two years of basic sciences (Small Animal Surgery).

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the medical. The clinic is run as any small animal practice. The students are assigned to the cases, assist in any operations, and under close supervision have charge of the patients.

SMALL ANIMAL MEDICINE

760. Fall term, third year. Credit three hours. W 11, Th S 9.

761. Spring term, third year. Credit three hours. Th 8, F S 9.

Professor Kirk. Prerequisite. Special Pathology and Pharmacology.

762. SMALL ANIMAL SURGERY

Third year, spring term. Credit four hours. M W F 8, W 11. Professor Leonard. Prerequisite, Special Pathology.

763. SURGICAL EXERCISES

Third year, spring term. Credit one hour, M T W or Th 2-4:30. Professor Leonard, Associate Professor Ross.

ADVANCED WORK

960. Fall term.

961. Spring term.

Five or more hours a week throughout the term. Research in medicine and surgery of small animals. Professors Leonard and Kirk.

LARGE ANIMAL MEDICINE, OBSTETRICS AND SURGERY

Professors K. McEntee, S. J. Roberts, F. H. Fox, A. G. Danks, D. D. Delahanty (on leave until Dec. 15, 1966), A. J. Winter; Associate Professors N. L. Norcross, W. K. Loomis, R. Kenney, J. C. Geary; Assistant Professors R. B. Hillman, R. C. Bartholomew, J. E. Lowe, R. F. Kahrs; Supervising Veterinarian R. S. Guthrie; Field Veterinarians S. D. Johnson, L. E. Field; Senior Research Associates H. O. Dunn, D. H. Lein; Medical Internes R. K. Braun, T. F. Albert; Surgical Internes R. H. Whitlock.

The prerequisite requirement for admission to undergraduate courses in this department, except Course 470, is the successful completion of the basic science subjects presented in the first two years of the veterinary curriculum.

Classroom Work in Large Animal Medicine

The course in the veterinary large animal medicine, principles and practice, extends over the last two years of undergraduate study, the subjects of the second year being distinct from, and complementary to, those of the first. It includes the constitutional, dietetic, and toxic affections and the non-infectious maladies of the different systems of organs—digestive, respiratory, circulatory, urinary, cutaneous, reproductive, and visual—of the various genera of domestic animals. It also includes a study of the clinical phases of infectious and parasitic diseases, the disturbances of metabolism and therapeutics of large animals.

Our proximity to a large agricultural college and to a well-stocked farming community tends to offer a greater variety of patients than can be had in a large city remote from country flocks and herds. Students take charge of a few unusual cases in the hospital and many routine cases in the ambulatory clinic. Complete daily records are prepared by the students on all of the most instructive cases. The course also includes instruction in diagnosis. Through the medium of laboratory work students are expected to acquire a methodical system of examination by repeated systematic observations on both normal and diseased animals. The work involves the use of various special diagnostic methods taught in our own and other laboratories of the College, such as examination of the blood, milk, urine, and feces, the application of sero-diagnostic methods, etc.

Ambulatory Clinic

An ambulatory or out-clinic is conducted for the purpose of giving instruction to students under conditions identical with those encountered in private practice. Proper conveyances and equipment are provided, and an opportunity is afforded for observing such diseased farm and dairy animals as cannot be entered in the clinics of the College. The student thereby not only has an opportunity to see cases not readily brought to the College clinic but also assists in handling cases in the same manner and under the same environment as are required of the country practitioner. As the vicinity of Ithaca is largely devoted to dairying, valuable clinical material relating to obstetrics and the diseases of dairy cows is available and is extensively used. In addition, the supervising veterinarian and two field veterinarians associated with the New York State Mastitis Program are resident in Ithaca, and senior students are required to accompany and assist them on many field trips dealing with all phases of bovine mastitis, including a study of various methods of milking and housing dairy cattle. In the senior year field trips are made to study and observe management practices on large horse breeding, sheep, and swine farms, and these are a required part of Courses 671, 770, 771, 772, 870, and 871.

Classroom Work in Large Animal Surgery

Course 773 (General Surgery), Course 630 (General Pathology), and Course 774 (Large Animal Surgical Exercises) together constitute a group designed to impart a general knowledge of the principles of surgery, surgical pathology, therapeutics, and operative technique.

Course 775, a total of seventy-five lectures and recitations, is devoted to the surgery of the various regions of the body and includes horse-shoeing.

Laboratory Work in Surgery

The laboratory work includes surgical exercises and general surgery. In the course in large animal surgical exercises the student is required to perform most of the important operations on horses, cattle, and sheep. The animal is placed under general anesthesia, which is maintained until the close of



The skin test for tuberculosis (Ambulatory Clinic, Department of Large Animal Medicine, Obstetrics and Surgery).

the period, when the subject is destroyed. Emphasis is placed on asepsis and antisepsis, arrest of hemorrhage, suturing, and dressing, so that while acquiring skill and knowledge of the appearance, resistance, and general character of living tissue, the student also forms proper habits in surgical procedure.

In general surgery laboratory, most emphasis is placed upon the farm animals, but many basic principles may be adapted to all classes of animals. Subjects taught include restraint, various methods of administering medicines, suturing, bandaging, examination of teeth, examination of the feet, and complete examination for soundness.

Clinical Surgery of the Farm Animal

A hospital is maintained with facilities for the hospitalization of approximately 67 patients. There are two operating rooms equipped with operating tables, stocks, diagnostic and therapeutic X-ray equipment, and other conveniences. There is also a farriery with a farrier in attendance. Fourth-year students are in the clinics for the entire day, Monday through Friday, also on Saturday and Sunday morning. Two classes of patients are admitted: special patients and clinic patients. Special patients are examined, diagnosed, and treated by the senior staff members. The students assist and observe. Clinic patients are examined, diagnosed, and treated by the residents and students. In the hospital, the student has an opportunity to see, examine, and treat many unusual cases that are referred to the College by practitioners. Furthermore, the student has an opportunity to study the progress of cases, which is often impossible when treating patients on the farm. The cooperation between

the clinical staff and the laboratories provides the student an opportunity to study the patient critically and to correlate clinical with both physiological and pathological findings. Every possible opportunity is given to the student to participate in the examination and treatment of patients because the student will learn more from doing than from observing.

470. HEALTH AND DISEASES OF ANIMALS

Spring term. Credit three hours. Lectures, M W F 11. Associate Professor Loomis. Not open to first-year students or to those who have had no course in animal husbandry. The causes and the nature of the common diseases of livestock are discussed. Emphasis is placed on the prevention and control of animal diseases.

570. HISTORY OF VETERINARY MEDICINE

Fall term. Credit two hours. W F 10. Professor Danks.

670. FUNDAMENTALS OF ROENTGENOLOGY

Second year, spring term. Credit one hour. Th 11. J. Geary and staff. Technique of operation of modern equipment, X-ray protection, darkroom procedure, and fundamentals of diagnosis.

OBSTETRICS AND GENITAL DISEASES

671. Spring term, second year. Credit three hours. Lectures W F 8. Laboratory F 2-4:30 or S 9-11:30. Professor Roberts.

Pregnancy diagnosis, diseases of the gestation period including teratology and abortion, parturition, dystocia, obstetrical operations and postpartum diseases are presented.

770. Fall term, third year. Credit three hours. Lectures T 9, S 8. Laboratory M or Th 2-4:30. Professor Roberts.

Applied physiology and endocrinology of the male and female reproductive tract, congenital, infectious, endocrine and miscellaneous diseases of the genital organs causing infertility and sterility, and artificial insemination are presented. Further clinical instruction in obstetrics and infertility is given in the ambulatory clinic, in the College dairy barn, and at a nearby abattoir in the third and fourth years.

DISEASES OF LARGE ANIMALS

771. Fall term, third year. Credit five hours. M T W Th F 8.

772. Spring term, third year. Credit two hours. F S 8. Professor Fox.

Lectures or recitations covering physical diagnosis, ophthalmology, therapeutics, and some diseases of large animals.

773. GENERAL SURGERY

Third year, fall term. Credit four hours. M W 9, F 10; T Th or S 10-12:30. Professor Delahanty and assistants. Prerequisites, third-year standing in the veterinary curriculum.

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774. LARGE ANIMAL SURGICAL EXERCISES

Third year, fall term. Credit one hour. M W or Th 2-4:30, T 2:30-5. Assistant Professor Lowe. Three hours a week of laboratory work in surgical operations upon anesthetized large animals.

775. SPECIAL SURGERY OF LARGE ANIMALS

Third year, spring term. Credit five hours. M T W Th 9, F 11. Professor Delahanty.

DISEASES OF LARGE ANIMALS

870. Fall term, fourth year. Credit five hours. M T W Th F 8.

871. Spring term, fourth year. Credit four hours. M T W Th 8.

Assistant Professors Hillman and Bartholomew.

Lectures and field trips concerning poisonous plants are given by Associate Professor Kingsbury of the Department of Botany.

872. JURISPRUDENCE, ETHICS, AND BUSINESS METHODS

Fourth year, spring term. Credit one hour. F 8. Professor Danks and associates. Lectures by a lawyer on the subjects of the expert witness, jurisprudence, and civil law; lectures by one trained in business administration on the subjects of accounting, business methods, etc.; and lectures on various practical subjects such as registration, selecting a place to practice, advertising, ethics, etc.

ADVANCED WORK IN REPRODUCTIVE PATHOLOGY AND BACTERIOLOGY, MEDICINE, OBSTETRICS AND SURGERY

970. Fall term, graduate students. Hours and credit to be arranged.

971. Spring term, graduate students. Hours and credit to be arranged.

Professors McEntee, Roberts, Fox, Delahanty; Associate Professors Kenney, Winter, Loomis.

Properly prepared students may undertake special problems or receive special assignments.

IMMUNOCHEMISTRY

Associate Professor Norcross. See Microbiology Department, course number 944.

REPRODUCTIVE PATHOLOGY

Professor McEntee. See Pathology Department, course number 938.

EPIDEMIOLOGICAL METHODS

Assistant Professor Kahrs. See Microbiology Department, course number 740.

Special Lectures

During the year, lectures on special topics in medicine will be given by eminent practitioners and teachers of veterinary medicine. These will form a part of the instruction in this department.

Opportunities for Research

The activities of the department, aside from the instruction work, are devoted to research in connection with diseases of cattle, including mastitis, the phenomena of sterility and abortion in animals of breeding age, and diseases of newborn calves. Opportunity is afforded for participation in the investigations by graduate students having acceptable preparation.

THE CLINICAL COURSES

Professors Leonard, Delahanty, Roberts, Kirk, Rickard, Fox, Bentinck-Smith, Fabricant, Peckham, Hitchner, Bracken; Associate Professors Loomis, Olander, Ross, Geary; Assistant Professors Hillman, Lowe, Bartholomew; Medical Internes Braun, Bistner, Butler, Albert, Neal; Surgical Interne Whitlock; Research Associate Holzinger; Assistant Percy; Supervising Veterinarian Guthrie; Field Veterinarians Field, Johnson.

The practical application of the student's basic knowledge of veterinary medicine to the clinical diagnosis and therapy of disease begins in the third year of his course. During that year he is required to take Clinical Orientation, which introduces him to clinical work largely as an observer. His intensive training in clinical medicine and surgery begins in his fourth year, the greater part of which is devoted to actual handling of patients under close supervision of members of the clinical staff. The technical instruction is divided among four departments as follows.

The Ambulatory and Consulting Clinics are operated by the Department of Large Animal Medicine, Obstetrics and Surgery.

The Small Animal Clinic is operated by the Department of Small Animal Medicine and Surgery.

The Poultry Clinic is conducted by the Department of Avian Diseases.

The work in autopsies and clinical pathology is conducted by the Department of Pathology.

Information about the respective clinical divisions will be found under the course announcements of the departments concerned. Only students who have completed the first two years of the veterinary curriculum will be admitted to any one of the clinical courses.

Students must complete all prescribed clinical courses satisfactorily to be eligible for graduation.

CLINICAL ORIENTATION

790. Fall term, third year. M 11.

791. Spring term, third year. M T W or Th 2-4:30.

Professor Leonard in charge.

Methods of clinical examination will be demonstrated, and selected cases from all the clinics will be presented and discussed.

SENIOR SEMINAR

898. Fall term, fourth year. F 12-1.

899. Spring term, fourth year. F 12-1.

Assistant Professor Lowe in charge.



A student examines a cow for mastitis.

These conferences will be attended by all members of the fourth-year class and by staff members representing not only the clinical but the preclinical or basic sciences as well. Students will be required to present reports on their studies of selected cases from the clinics, and these will be criticized and discussed by the students and faculty members. In this way special knowledge and viewpoints of the anatomist, biochemist, physiologist, pathologist, bacteriologist, and parasitologist, as well as those of the clinicians, will be brought to bear on problems of diagnosis and therapy.

SMALL ANIMAL CLINIC

890. Fall term, fourth year. Credit four hours.

891. Spring term, fourth year. Credit four hours.

LARGE ANIMAL CLINIC

892. Fall term, fourth year. Credit four hours.

893. Spring term, fourth year. Credit four hours.

AMBULATORY CLINIC

894. Fall term, fourth year. Credit four hours.

895. Spring term, fourth year. Credit four hours.

CLINICS ANCILLARY

896. Fall term, fourth year. Credit four hours.

897. Spring term, fourth year. Credit four hours.

The above clinics operate daily by assignment, including nights and Sundays when necessary. Professors Leonard, Delahanty, Fox, Bentinck-Smith, respectively.

During his fourth and final year the veterinary student is required to spend his time, after 9 o'clock daily, studying and ministering to the ailments of patients. He is on call, night and day, during the entire year. For this reason he is not permitted to carry extra academic courses, and outside part-time employment is not accepted as a valid excuse for failure to meet his full responsibilities in these courses.

Under a plan of rotation, students are required to work in groups in the four clinics so that they may acquire a varied experience. Work in one of the clinics may not be substituted for that in any of the others.

Work in clinical pathology and autopsies will be supervised by the Department of Pathology. As a part of their clinical duties, students will be required to carry out, under the supervision of the clinical pathologist, such laboratory procedures as are indicated. If the patient dies, the same students who attended him during life will be required to conduct the autopsy and to make any pathological, bacterial, or biochemical tests that are necessary to provide complete information on the nature of the disease, the reasons for failure of the therapeutic procedures used, and the cause of death.

COURSES IN THE VETERINARY CURRICULUM GIVEN BY OTHER DIVISIONS

College of Agriculture

100. ANIMAL SCIENCE

Introductory Animal Science. First year, fall term. Credit three hours. Lectures, W F 10. Morrison 146. Laboratory, W 11-1. Livestock Pavilion. Associate Professor Elliott and assistants.

Designed to acquaint the beginning student with the development, scope, economic importance, problems, and language of the livestock industry. All commercially important classes of farm animals are considered, with emphasis on dairy cattle, beef cattle, sheep, and swine. The place of the biological sciences in a rapidly changing animal agriculture is stressed. The intent is to give insight into opportunities in the field, and to serve as an introduction to subsequent specialized courses.

311. ANIMAL SCIENCE

The Principles and Practice of Animal Feeding. First year, spring term. Credit three hours. Lectures, M W 8. Morrison 163. Laboratory T 2-4:30. Morrison 164. Associate Professor Hogue.

Consideration is given to the basic principles of animal nutrition, nutritive requirements for various body functions; the identification, composition, and nutritive value of feeds, and the formulation of animal rations. The species covered include dairy cattle, beef cattle, sheep, swine, and horses, and there is some consideration of dogs, cats, and other small animals. Special emphasis is given to nutritional problems relating to animal health.

424. ANIMAL GENETICS

First year, spring term. Credit two hours. For veterinary students. Lecture T 9-10, Laboratory, Th 2-4:30. Morrison 146. Associate Professor Van Vleck.

Principles of Mendelian genetics including linkage and sex determination; simply inherited characters in domestic animals, changes in gene frequencies due to selection with special reference to lethal genes; introduction to quantitative genetics with special reference to genetic resistance to disease, relationships and inbreeding, the selection index, response to selection.

Department of Military Science

The advanced Army ROTC Course is an elective open to those veterinary students who have credit for two years' Army, Navy, or Air Force ROTC, or who are veterans. The course requires attendance in three morning classes for one semester of each of the junior and senior years. During the other semester of the junior and senior years, the student substitutes a three-hour academic course in the field of communications, science, political theory, or psychology for credit in the ROTC program. In addition, two afternoon hours per week (2-4 W, or Th) during each semester of the junior and senior years are devoted to drill formations and leadership studies.

Also offered is a new opportunity to be commissioned as Second Lieutenants after only two years of on-campus ROTC training. The traditional ROTC program requires four years, but the new ROTC Vitalization Act of 1964 makes it possible for college students to meet requirements for a commission in just two years. A student may take advantage of this opportunity, providing he has two years of study remaining, by attending a six-week basic summer camp subsequent to his sophomore year and completing the advanced course prior to graduation. The advanced course is the same as that described for the four-year option. Students are cautioned to check their curricula with the Professor of Military Science prior to electing this option. Application for the two-year option must be made to the Department of Military Science prior to March 15 each year.

CAREERS FOR VETERINARIANS

The function of the Veterinary College is to educate young men and women to become practitioners, teachers, and research workers in the science and art of veterinary medicine. The College thus serves to protect the health of livestock, poultry, and companion animals, and to support public health programs.

The veterinary medical profession offers excellent opportunities for those who have an abiding interest in the diagnosis, treatment, and prevention of diseases of animals. Like most medical careers it is a way of life requiring strong vocational motivation and dedication. It is a demanding career. The work often is rigorous. The compensation varies greatly, but intelligent and conscientious service usually is rewarded by an adequate income. Those who are genuinely interested in the work have the satisfaction of serving a useful purpose. Some of the opportunities for veterinary graduates in the United States are described below.



An examination for thyroid function with radioactive iodine.

PRIVATE PRACTICE

Veterinary practice is a wide field with excellent opportunities for well-qualified persons. Practice may be (a) general, in which the individual offers his services in dealing with all species of animals; (b) restricted to small animals, in which only pets are treated; or (c) specialized, in which practice is limited, for example, to diseases of poultry, diseases of horses, diseases of cattle. About two-thirds of the graduates of veterinary colleges become private practitioners.

SALARIED POSITIONS

About one-third of veterinary college graduates obtain salaried positions. The majority of these are with the federal, state, county, and municipal governments; the remainder with private corporations or academic institutions.

Private Corporations

Many veterinarians are employed by the large milk companies, by large stock and poultry farms, and by industrial laboratories that produce biologicals and pharmaceuticals for the prevention and treatment of diseases.

Governmental Agencies

THE AGRICULTURAL RESEARCH SERVICE OF THE UNITED STATES DEPARTMENT OF AGRICULTURE employs more veterinarians than any other single agency. The work is concerned for the most part with the prevention, control, and eradication of domestic and foreign infectious and parasitic diseases of milk- and meat-producing animals.

This Service also is responsible for assurance of safe, wholesome, and accurately labeled food products of animal origin. Regulatory veterinary medicine, based upon sound veterinary medical knowledge, supported by effective legislation, is planned and carried out in ways that will achieve the desired results while interfering least with the economic life of the community and nation.

Many veterinarians in this Service are engaged in full-time research programs on diseases of animals of economic importance in well-equipped laboratories under the direction of the Animal Disease and Parasite Research Division.

VETERINARY CORPS, U.S. ARMY AND AIR FORCE. Veterinarians who are physically qualified men and graduates of veterinary colleges acceptable to the Surgeons General of the U.S. Army and U.S. Air Force and who elect to go on active duty are eligible to make application for appointment. Qualified candidates are appointed in the grades of first

lieutenant to colonel inclusive, the grade being determined by the age, professional experience, and professional qualifications of the applicant.

THE U.S. PUBLIC HEALTH SERVICE employs veterinarians in the development and administration of programs concerned largely with the control of domestic and foreign diseases of animals transmissible to man. The Service cooperates extensively with international disease control agencies as well as with our state governments. In addition, to maintaining active programs in research laboratories of its own, the Service engages in diversified contractual research programs with numerous academic institutions.

STATE GOVERNMENTS. Every state has a state veterinarian or similar officer, usually in the department of agriculture, whose duties are to look after the health of animals by enforcing laws and regulations drawn for this purpose. In many states the state veterinarian has a corps of assistant veterinarians.

Many state health departments have one or more veterinarians on their staffs to advise on animal diseases that have significance in human health and to investigate outbreaks of such diseases.

Almost every agricultural college has a veterinary department. Some of these employ five or six veterinarians as research workers and teachers. The veterinary colleges of the country have staffs of veterinarians working in a number of specialized disciplines. Teaching opportunities are numerous in every field of veterinary education.

MUNICIPAL GOVERNMENTS. Most cities employ graduate veterinarians on a full-time basis, and many towns and villages on a part-time basis, as members of their health departments. The duties of these men usually are connected with the sanitary control of meat and milk.

LEGAL REQUIREMENTS FOR PRACTICE

Before one can practice veterinary medicine in the United States he must obtain a license from the state or states in which he locates his practice. This license generally is issued by the department of education or the department of agriculture on the basis of an examination set by a veterinary licensing board. Some states issue licenses without examination, by reciprocity when the applicant has been licensed in other states.

In New York the licensing agency is the State Education Department, Albany, New York. Examinations are given twice a year. Applicants are required to furnish evidence of adequate preprofessional as well as professional education, of good moral character, and of being at least 21 years of age. Application for the examination must be filed at least 30 days before the scheduled date and must be accompanied by a fee of \$40.

STUDENTS

GRADUATE STUDENTS, 1965-66

- Ahrens, Franklin A., B.S., D.V.M.,
Clarkson, Neb.
- Al-Aubaidi, Jawad M., B.V.M.S.,
Baghdad, Iraq
- Anderson, John J. B., A.M., A.M.T.,
A.B., Haverhill, Mass.
- Appel, Max Johann, D.V.M., Hull,
Quebec, Canada
- Benjamin, Stephen A., B.A., D.V.M.,
New York City
- Brooks, Antone L., B.S., M.S., Salt
Lake City, Utah
- Brown, Walter Ray, B.S., D.V.M.,
Dryden
- Bredderman, Paul, B.S., M.S., Ithaca
- Buerger, Alfred A., A.B., M.S., Buf-
falo
- Burda, Karina D., B.S., Ithaca
- Corradino, Robert A., B.S., M.S.,
Lancaster, Pa.
- Croghan, Donald L., B.S., M.S.,
D.V.M., Savanna, Ill.
- Davis, Thomas E., D.V.M., Rochester
- Dellers, Robert W., D.V.M., Wood-
side
- Dodd, Kevin, M.V.B., Ireland
- Dougherty, Ellsworth III, B.S.,
V.M.D., Southold, L. I.
- Ebel, Joseph G., B.S., Newfield
- Estes, Paul C., B.A., D.V.M., M.S.,
Kentucky
- Fung, Joseph Ping H., B.Sc., M.S.,
Hong Kong
- Gray, Bruce W., D.V.M., Ithaca
- Gries, Christian L., D.V.M., Ithaca
- Hacker, Carl S., B.S., M.A., Hampton,
Virginia
- Henry, Richard P., A.A.S., B.S., Ith-
aca (Summers)
- Hiltz, Frederick L., S.B.E.E., S.M.E.E.,
Milford, N.H.
- Hirabayashi, Doris L., B.S., M.S.,
Youngstown, Ohio
- Holmes, Dorothy F., D.V.M., Groton
- House, Carol A., B.S., Kenmore
- Ingersoll, Ronald J., B.S., Cortland
- Kahn, Donald E., D.V.M., Flushing
- Kallfelz, Francis A., D.V.M., Syracuse
- Kasprzak, Hedwig (Mrs.), B.A., Ithaca
- Katz, Michael L., B.S., D.V.M., Ithaca
- Kehoe, J. Michael, D.V.M., Dryden
- Kelly, Robert H., B.S., Ithaca
- LeJambre, Leo F., B.S., M.S.,
Wrightstown, N.J.
- Losos, George J., D.V.M., M.V.Sc.,
Guelph, Ontario, Canada
- McGeady, Thomas, M.R.C.V.S., M.Sc.,
M.V.B., Dublin, Ireland
- Miller, P. Morey, B.S., Towanda, Pa.
(Summers)
- Molony, Vincent, M.R.C.V.S., B.V.Sc.,
England
- Moraff, Howard, A.B., B.S., M.S.,
Ithaca
- Morrissey, Robert L., B.S., D.V.M.,
Albany, Ill.
- Morrow, David A., B.S., D.V.M., M.S.,
Ithaca
- Post, John E., B.S., D.V.M., Middle-
bury, Vermont
- Rich, Lonnie J., B.S., D.V.M., N.
Sacramento, Calif.
- Rothmeier, Jeffrey, B.E.E., Ithaca
- Sabry, Mohamed M., B.V.Sc., M.D.V.,
Cairo, Egypt
- Samuelson, John D., B.S., D.V.M.,
Olsburg, Kansas
- Schwake, Ralph D., D.V.M., Sumner,
Iowa
- Scott, Fredric W., D.V.M., Ashfield,
Mass.
- Slocombe, J. Owen D., B.S., D.V.M.,
Tobago, B.W.I.
- Spomer, Wilma E., B.S., Fort Collins,
Colo.
- Spencer, J. Lloyd, B.S., D.V.M., Ma-
grath, Alberta, Canada
- Strandberg, John D., B.A., D.V.M.,
Nelson, Minn.
- Talisayon, Serafin D., B.S., Manda-
luyong, Philippines
- Thorlacius, Sigurberg, B.Sc., Winni-
peg, Canada
- Trenholm, H. Locksley, B.S.C., Nova
Scotia, Canada
- Umana, Ramon F., B.Sc., Bogota,
Colombia (Non-degree)
- Van Kruiningen, Herbert J., D.V.M.,
Wallington, N.J.
- Volenc, F. Jerry, B.S., Omaha, Ne-
braska
- Wagner, William C. Sr., D.V.M.,
Gary, Indiana
- Walton, Thomas E., D.V.M., Ithaca
- Williamson, Martha, B.S., Erie, Pa.
- Wing, Patricia C., D.V.M., Ithaca

FOURTH YEAR, CLASS OF 1967

- Averill, Damon Rivers, Jr.,
Kenmore
- Beyer, George John, West Seneca
- Bliss, Ernest L., Rindge, N.H.
- Brown, Garrison Mack, East
Marion
- Burke, Jack, New Rochelle
- Burroughs, Richard John, New
Berlin
- Cary, Arnold Dean, Shrewsbury,
Mass.
- Ceglowski, Eugene Charles,
Rupert, Vt.
- Ceglowski, Jean B., Oyster Bay
- Cook, Roger Benham, Potsdam
- Dillmann, Christopher, Bellmore
- Eskeli, Matthew William, East
Randolph
- Franzek, James Conrad, Alden
- Gardner, Michael Hugh, Corfu
- Garman, John Lewis, Jr., West
Hartford, Conn.
- Gaskin, Jack Michael, Watertown
- Goetchius, Paul Francis, Monroe
- Gorra, Ferris George, Yonkers
- Hackathorn, Thomas Arthur,
Slippery Rock, Pa.
- Hart, Douglas William, White
Plains
- Hilt, John Wesley, Ithaca
- Holden, Herbert Roger,
Shrewsbury, Mass.
- Ingraham, Allan John, Thorndike,
Me.
- Johnson, Frederick Wingate,
Southampton, Mass.
- Kaplan, Joshua Meyer, Brooklyn
- Karpas, Dov, Jerusalem, Israel
- Kaufmann, Gerard Augustus, Jr.,
White Plains
- Krakowsky, Jeffrey Norman,
Brooklyn
- Kubiak, Jan, New Bedford, Mass.
- Leahy, James Martin, Lee, Mass.
- Leavitt, Edward Wilfred, Eliot
Me.
- Martin, Edward Glenn, Jamestown
- Mathews, Leslie James, Ithaca
- McMillan, Harry Thomas,
Watertown
- Meiczinger, James Leslie, Ithaca
- Miller, Lloyd Edward, Troy
- Missenis, John Joseph, Troy
- Myer, Carole Wendy, Glen Cove
- O'Keefe, Robert Charles, North
Norwich
- Olin, Keith Merriam, Oriskany
- Parrish, David Curtis, Paris, Ky.
- Peddie, Donald Edward,
Montoursville, Pa.
- Powell, Josef Mark, Fredonia
- Rumsey, Leon David, Smethport,
Pa.
- Schwartz, Victor Jene, Wantagh
- Sequist, David Bea, East Hartford,
Conn.
- Snell, Glen Donald, Marcellus
- Stein, George, Jr., Ridgewood, N.J.
- Stephenson, Robert James, East
Northport
- Walker, Jonathan Pearson,
Newtown, Pa.
- Warriner, Wayne Francis,
Greenwood
- White, Karl Karey, III, Media, Pa.
- Wilson, Terrance Michael, St.
James
- Witter, Alan Francis, Richmond,
Va.

THIRD YEAR, CLASS OF 1968

- Ackerman, Frederick Anthony, Jackson Heights
Atlas, Harvey Stephen, New Hyde Park
Baum, Gary Mark, Brooklyn
Benyei, Curt Christian, Danbury, Conn.
Bliss, DeGraff Everett, Jr., Whitesboro
Bogaard, Gerard John, Albany
Bowen, Timothy Ayre, Scarsdale
Brody, Bernard Livingston, Albany
Casadei, Peter Nino, Litchfield, Conn.
Conrad, Charles Roger, Johnson City
Dalland, Edward Sigbjorn, Jr., Brooklyn
Feldman, Kenneth Donald, Bayside
Foster, David Ames, Hollis, N.H.
Gallagher, Gregory William, Keene, N.H.
Gill, Harold Priestley, Jr., South Hadley, Mass.
Graycar, Barbara Frances, New York
Groskin, Robert Martin, Staten Island
Hachten, Wayne Harold, Eggertsville
Hagan, David Kent, Mannsville
Henes, Michael George, New Hyde Park
Henry, Richard Peter, Plainveiw
Holmes, Crawford Cameron, Millerton, Pa.
Katsinis, Nicholas, Buffalo
Kaufman, Charles Fred, Franklin Square
Keim, Guy Richard, Jr., Carlisle, Pa.
Kinsey, James David, Livingston, N.J.
Kube, Thomas Smith, Broad Run, Va.
Meyer, Alan Sidney, Yonkers
Miller, Peter Morey, Jr., Towanda, Pa.
Mueller, Robert Warren, Staten Island
Nerenberg, John Allen, Calverton
Neveu, Peter Maurice, Chateaugay
Nolan, Paul Martin, Hillsdale
North, John Arthur, Somerville, N.J.
O'Connor, Harry Patrick, Lowville
Parry, Enoch Wesley, Churchville
Pawlicki, James John, Boonville
Pomper, William Holloway, New York
Prowten, Allan Wainright, West Acton, Mass.
Putman, Robert Norman, Holland
Raftar, Maria Victoria, Manhasset
Rathwell, Alan Clarke, Navan, Ontario, Canada
Redlus, Howard William, Union, N.J.
Riehle, Henry Albert, N. Syracuse
Schoonmaker, George Daniel, Accord
Schuchman, Phillip Barry, Bayside
Scoville, David Farley, Goshen
Scudder, Keith Alden, Painted Post
Seeber, Kenneth Paul, Watertown
Silverstein, Gary Neil, Bayside
Steiner, John Victor, Mahopac
Termin, Paul Lewis, Bellerose
Veley, William Allen, Nunda
Vogel, Alvin Josef, New York
Walker, David Johnson, Rochester
Wattie, Robert Thurston, Walden
Weaver, Morris Greene, Perrysburg, Ohio
Welsh, John Lawrence, Altamont
Wiest, Richard Dale, West Lawn, Pa.
Zimmer, James Francis, Rochester

SECOND YEAR, CLASS OF 1969

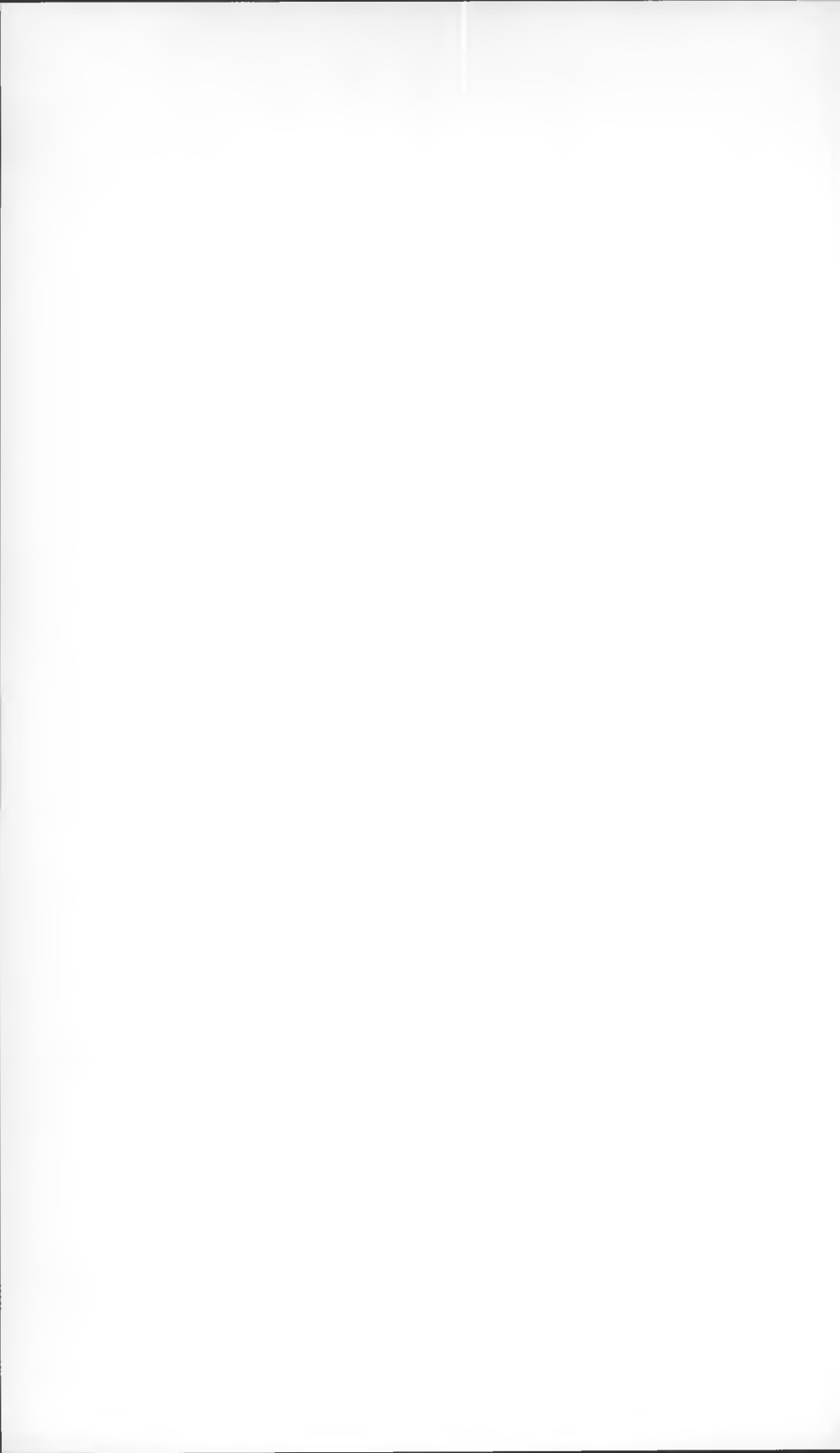
- Allen, William Walker, Jr.,
Ridgefield, Conn.
- Beneke, George, Millerton
- Bilinski, Gerald, Mechanicville
- Brofee, Robert Dale, Millerstown,
Pa.
- Bushey, Clark Kenyon, Cuba
- Casler, Michael James, Fort Plain
- Clark, Edgar Thompson, Portville
- Cousins, Oswald Bancroft,
Jamaica, West Indies
- Crafts, Gordon Alty, Rochester
- Cutter, Arthur Hardy III,
Rochester, N.H.
- Darling, Larry Eugene,
Conewango Valley
- DeGroff, Leslie Edward, Perry
- DeLeo, Joseph Richard, Inwood
- Delius, Kenneth Frederick,
Denville, N.J.
- Dennis, Timothy John, Jasper
- Dungan, Paul Barnes, Hancock
- Dunnewold, Duane Donald,
Clymer
- Eisenhard, Carl Leonard, Warsaw
- Fredericks, Richard William,
Northport,
- Giddings, Robert Fisk, Old
Bennington, Vt.
- Gleason, John Lincoln, Ashville
- Haddad, Joseph, Jamaica, West
Indies
- Hayes, Raymond Stephen, New
York
- Heffner, William Arthur,
Waynesboro, Va.
- Holshuh, Harold Jacob, Akron,
Ohio
- Hopson, Gary Richard, Dolgeville
- Howard, Courtland Rogers,
Stephentown
- Jefferson, David Austin, Pelham
Manor
- Kaplan, Warren Ira, Laurelton
- Karmin, Andrew, Roslyn
- Kelleway, Richard Aldrich,
Rutland, Vt.
- Lamb, Bruce Elwood, Jr., Roscoe
- Lerman, Mark, Elmont
- Luger, Jay Ira, Mamaroneck
- MacWilliams, Peter Scott,
Poughkeepsie
- Magnuson, Peter Alfred, Bellmore
- McCauley, Alan David, New
Brighton, Pa.
- McClure, James Gordon,
Hyattsville, Md.
- Miller, Alexander Jon, Flushing
- O'Connor, James Richard, Jr.,
Hamburg
- Ojo, Yusufu, Jos, Nigeria
- Palka, Frank Charles, New York
- Powell, Donald Carroll, Laurel,
Del.
- Roemmelt, John Carl, Elmira
- Rogers, Dale Lewis, Brookfield
- Sadovsky, Roy, Roosevelt, N.J.
- Schmitt, Robert Pearce, Short
Hills, N.J.
- Schneible, Paul George, Holland
Patent
- Schuchman, Stephen Michael,
New York
- Smiley, Paul Gerow, New Paltz
- Snyder, Milton Kirkwood,
Lexington, Ky.
- Sprinkle, Ted Alvin, Jr., New
Cumberland, Pa.
- Taylor, Robert Davis, Jr., Spencer,
Mass.
- Tompsett, James William,
Sinclairville
- Tumolo, Louis Patrick, Plainfield,
N.J.
- Wood, Michael John, Gansevoort
- Zemel, Meyer Robert, Rome

FIRST YEAR, CLASS OF 1970

- Averill, Eric William, Kenmore
Baldwin, Charles Hartley,
Huntington
Blackmer, Paul Edwin, Thompson,
Conn.
Bradford, Clifford A., Jamaica,
W.I.
Brunner, Michael Arthur,
Leopolis, Wis.
Card, Richard Edwin,
Westminster, Md.
Carlson, Kenneth A., Jr.,
Poughkeepsie
Cummings, Clifford Glenn,
Oxford
Davidson, Robert R., Baldwin
Harbor
DuBois, Edward James, New Paltz
Durkac, Gabriel Thomas,
Natrona Heights, Pa.
Ellis, Stephen Kenneth, Augusta,
Me.
Epstein, Alan Bruce, Flushing
Ferber, Alan Richard, Flushing
Fernandes, Peter Thomas,
British Guiana
Glendening, James Robert,
Binghamton
Goldberg, Morton Arnold,
Yonkers
Gordon, Paul James, Ithaca
Graham, Floyd Herbert,
Providence, R.I.
Gruhn, Ronald Fred,
Franklin Square
Heissan, Joseph Anthony,
Cooperstown
Hillis, Duane Fredrick, Albany
Hirsch, Leslie Stephen, Brooklyn
Holmes, George Ferguson, Belfast,
Me.
Hutchins, Douglas Bryant,
Penobscot, Me.
Ireland, William Paul,
New Rochelle
Kahn, Lawrence Alan, Teaneck,
N.J.
Ketcham, Stewart Lyman,
Greenville
King, Stanley Eugene, Clymer
Kinnear, Paul Whitling,
Buenos Aires, Argentina
Knapp, Joseph Jude, Loretto, Pa.
Kraybill, Robert William,
Lincroft, N.J.
LaDue, Robert Charles, Newport
Mass, Jason Warren, Merrick
Mauer, Lawrence Charles,
Little Neck
Meadow, Mark Richard, Liberty
Melkonian, Gregory Jon,
Barre, Vt.
Moak, Jeffrey, Kingston
Morgan, James Thomas,
Skaneateles
Moses, Jay Douglas, Great Neck
Otto, David Claffin, Amsterdam
Rosen, Ronald Jay, White Plains
Ross, David Alan, Rochester
Rowe, William Scott, Indiana, Pa.
Schutz, John Paul, Brewster
Shepard, Valerie Jane, Syracuse
Sherman, Arthur Harrison,
Albertson
Smithling, Thomas Henry,
Martinsburg
St. Pierre, Stephen Joseph,
Wethersfield, Conn.
Streams, Dale Calvin, Blairsville,
Pa.
Stringfellow, David Alwood,
Carlisle, Pa.
Sykes, Gerald Kenneth,
Hyattsville, Md.
Tillotson, Edward Louis, Richford
Tischler, Steven Arnold, New York
Tucker, Robert Dwight, Concord,
Mass.
Vaughan, Timothy Reed, Lyons
Falls
Wade, Donald Bruce, Union, N.J.
Weatherell, Linda Ann, Olean
Wing, Michael Andrew, Rochester
Woodworth, John Ralph,
Lyndonville

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CORNELL UNIVERSITY ANNOUNCEMENTS

The Cornell Announcements are designed to give prospective students and others information about the University. The prospective student should have a copy of the General Information Announcement; after consulting that, he may wish to write for one or more of the following Announcements:

New York State College of Agriculture (Four-Year Course), College of Architecture, College of Arts and Sciences, School of Education, College of Engineering, New York State College of Home Economics, School of Hotel Administration, New York State School of Industrial and Labor Relations, Center for International Studies, Officer Education (ROTC), Summer Session.

Undergraduate preparation in a recognized college or university is required for admission to the following Cornell divisions, for which Announcements are available:

Graduate School, Law School, Medical College, Cornell University-New York Hospital School of Nursing, Graduate School of Nutrition, New York State Veterinary College, Graduate School of Business and Public Administration.

Requests for the publications listed
above may be addressed to
CORNELL UNIVERSITY ANNOUNCEMENTS
Edmund Ezra Day Hall, Ithaca, New York 14850

(The writer should include his zip code.)

CORNELL UNIVERSITY ANNOUNCEMENTS

Supplement to Volume 58, Number 11, December 16, 1966

SCHOOL OF EDUCATION

The University Board of Trustees has found it necessary to make increases in certain charges to students, effective June 7, 1967.

In the following academic divisions, tuition will be \$787.50 and the General Fee will be \$237.50 *for each term*: Aerospace Engineering, Architecture, Arts and Sciences, Business and Public Administration, Engineering, Hotel Administration, and Unclassified Students.

In the Graduate School, if the major field of study is in an endowed division, tuition will be \$772.50 and the General Fee will be \$252.50 *for each term*. If the major chairman is on the faculty of a state-supported division, or of the Graduate School of Nutrition, or (generally) of the School of Education, tuition will remain at \$200.00, but the General Fee will be \$275.00 *for each term*.

In the Law School, tuition and the General Fee will remain at \$750 and \$200, respectively, *for each term*, and in the Division of Extramural Courses the tuition for each credit hour will remain at \$40.

In the state-supported divisions, for undergraduates, tuition will remain the same, but the General Fee will be as follows *for each term*: Agriculture: resident, \$137.50; non-resident, \$237.50. Home Economics: resident, \$150.00; non-resident, \$250.00. Industrial and Labor Relations: resident, \$137.50; non-resident \$237.50. Veterinary, resident, \$175.00; non-resident, \$275.00.

A "resident" is a person who has been a bona fide resident of the State of New York for at least one year prior to matriculation in one of the four state-supported divisions at Cornell (as named above).