

Tuskegee University
College of Veterinary Medicine
Doctoral Degree (PhD) in Interdisciplinary Pathobiology (IDPB)

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Degree Offered: **Doctoral Degree (PhD) in Interdisciplinary Pathobiology (IDPB)**

The Interdisciplinary Pathobiology graduate program at the College of Veterinary Medicine produces successful academicians and investigators in the areas of cancer cell biology, cancer, reproductive biology, risk analysis/epidemiology, food safety, nanobiotechnology, infectious diseases, toxicology, and control of food intake.

Admission Requirements:

- Applicants must have completed the M.S. degree or professional degrees (DVM, MD, DDS, MPH, etc.) from an accredited college or university
- Cumulative GPA of 3.0 or better
- Completed Online Application and Application Fee
- Official Transcripts from all colleges/universities (International Students must have transcripts through World Education Services – WES)
- GRE scores at least 540 (old) or 156 (new), less than five (5) years old
- Personal Statement
- Three (3) Recommendation Letters
- Resume or Curriculum
- ETS/WES Evaluation of Transcripts (International students only)
- TOEFL (International students only)
- Affidavit of Support and Bank Statement (International students only)

Graduation Requirements:

- Core Courses: 10-12 credit hours
- Elective Courses: 17-20 credit hours
- Total Course Work: 30 credit hours
- Research/Thesis: 30
- Admission to Candidacy
- Passing of the Final Oral Examination

Advisory Committee:

During the second semester of his/her study in the IDPB, PhD program, the student and his/her Major Professor must form an Advisory Committee consisting of a minimum of four members including the Major Professor. The Advisory Committee shall also serve as the Examination Committee.

Admission to Candidacy:

Admission to Candidacy for students who are enrolled in the PhD in Interdisciplinary Pathobiology, include the following:

1. Completion of all course work required for the PhD program (more than 30 credits for the students starting with a MS degree, or 60 credits for those starting with a BS degree).
2. Passing a written qualifying examination.
3. Successful oral presentation of research proposed to the Advisory Committee. Students who fail the qualifying examination after two attempts may apply for a master's degree in any of the established programs at Tuskegee University. In such cases, the student will have to meet the oral examination requirements of the master's degree Graduate Program.

Seminars:

A student pursuing the PhD in Interdisciplinary Pathobiology must present two seminars. This course includes practical examples of proper conduct of research, issues with copyright violation, plagiarism, interpretation of published work among other academic requirements including discussions on basic research methods, and a review of current research topics. Oral presentations are required.

Thesis:

The final draft of the thesis/dissertation must be filed with the student's Advisory Committee at least 30 days before the date listed in the university calendar for final copies to be submitted during the semester in which the student expects to graduate. The student must present to the Dean of Graduate Programs a "Preliminary Approval Sheet" (PAS) bearing the signature of the Major Professor before the final oral examination may be scheduled and before copies of the thesis/dissertation are distributed to members of the Examining Committee.

After the "Preliminary Approval Sheet" has been signed, it should be submitted to the Dean of Graduate Programs before the final examination is scheduled and before the final draft of the thesis/dissertation is prepared for final approval. Approval of the thesis/dissertation in its final form rests with the Examining Committee.

Curriculum for the IDPB, PhD Program**Required Courses**

Course	Semester	Course Number	Credit	Coordinator
Bio Statistics I	Fall	EVSC 0500	3	Wendall McElhenney
Bio Statistics II	Spring	EVSC 0501	3	Wendall McElhenney
Integrative Biochemistry I	Fall	IBSC 0603	4	Jesse Jaynes
Integrative Molecular Biology I	Fall	IBSC 0604	4	Delores Alexander
Graduate Seminar I	Fall	MBIO 0600	1	John Heath
Graduate Seminar II	Spring	IDPB 0602	1	John Heath
Ph.D. Research/Thesis	All Semesters	IDPB 0800	30	Graduate Faculty
Candidate for Degree	All Semesters	IBSC 0754	R	Gopal Reddy
TOTAL HOURS			46	

Elective Courses

Course	Semester	Course Number	Credit	Coordinator
Gross Anatomy I	Fall	ANAT 301G	4	Abdalla Eljack
Gross Anatomy II	Spring	ANAT 302G	5	Ayman Sayegh
Special Problems in Anatomy	All Semesters	ANAT 0506	1-3	Ayman Sayegh Abdalla Eljack
Microscopic Anatomy I	Fall	ANAT 309G	4	Hari Goyal
Microscopic Anatomy II	Spring	ANAT 310G	4	Hari Goyal
Special Problems in Microscopic Anatomy	All Semesters	ANAT 0506	1-3	Hari Goyal
Physiology I	Fall	PHSI 0340G	5	Gemechu Wirtu
Physiology II	Spring	PHSI 0441G	5	Gemechu Wirtu
Toxicology	Spring	PHSI 0546G	4	La nell Ogden
Special Problems in Toxicology	All Semesters	PHSI 0619	1-3	La nell Ogden
Pharmacology I	Fall	PHSI 0442G	3	Gemechu Wirtu
Pharmacology II	Spring	PHSI 0543G	3	Gemechu Wirtu
Special Problems in Biomedical Sciences	All Semesters	MBIO 0527G	1-3	Ayman Sayegh
General Pathology	Fall	PATH 426G	4	Frederick Tippett
Systemic Pathology	Spring	PATH 427G	3	Frederick Tippett
Special Problems in Pathology	All Semesters	PATH 0631	1-3	Ebony Gilbreath
Parasitology	Fall	PATH 425G	4	Dennis Anderson
Special Problems in Parasitology	All Semesters	PATH 0632	1-3	Dennis Anderson
Microbiology	Fall	MBIO 411G	1-5	Teshome Yehualaeshet
Special Problems in Microbiology	All Semesters	MBIO 0521	1-3	Gopal Reddy
Immunology	Fall	MBIO 413G	3	Gopal Reddy
Immunology / Virology Laboratory	Fall	MBIO 414G	1	Toufic Nashar
Virology	Fall	MBIO 412G	2	Toufic Nashar
Interpretation of Clinical Pathology Data	Fall and Summer	PATH 0637G	2	Thomas Graham
Endocrinology	Fall	PHSI 445G	2	Elizabeth Graham
Diagnostic Cytology	Fall and Spring	PATH 0636G	3	Elizabeth Graham
Special Problems in Pathobiology	All Semesters	PATH 0630G	3	Ebony Gilbreath
Special Problems in Epidemiology	All Semesters	MBIO 0666G	3	Asseged Bogale
Introduction to Veterinary Surgery	Spring	LMED 0570	3	Ricardo Irrizary Lorraine Linn
Physical Diagnosis	Spring	SMED 0493	1	Karen Copedge
Problem Based Medicine I	Spring	LMED 0494	1	Elizabeth Graham
Large Animal Medicine I	Fall	LMED 0550	4	Kenneth Newkirk Karen Copedge David McKenzie
Large Animal Medicine II	Spring	LMED 0651	4	David McKenzie Jeannie Bellamy
Large Animal Surgery	Fall	LMED 0554	3	Elizabeth Yorke S. Para

				Jeannie Bellamy
Diagnostic Imaging	Fall	SMED 0571	3	Ruby Perry
Small Animal Medicine/Surgery I	Fall	SMED 0572	5	Pamela Martin
Small Animal Medicine/Surgery II	Fall	SMED 0574	5	Shannon Boveland
Small Animal Surgery I	Fall	SMED 0576	1	Howard King
Small Animal Surgery II	Spring	SMED 0577	1	Howard King Lorraine Linn
Fundamentals of Clinics I	Fall	SMED 0595	3	Howard King Elvia Bridges Kenneth Newkirk Caroline Schaffer James Heintz Woubit Abdela Deidre Quinn-Gorham
Fundamentals of Clinics II	Spring	SMED 0596	3	Howard King
Fundamentals of Clinics III	Summer	SMED 0693	4	Howard King Frederick Tippet
Fundamentals of Clinics IV	Fall	SMED 0695	12	Howard King
Fundamentals of Clinics V	Spring	LMED 0696	6	Howard King
Theriogenology & Herd Health	Fall	LMED 0653	5	Elvia Bridges Pamela Guy
Problem Based Learning	Summer	SMED 0694	2	James Heintz
Problem Based Learning	Fall	SMED 0689	2	James Heintz