

ANIMAL MOLECULAR AND CELLULAR BIOLOGY

Program Information

The animal molecular and cell biology (AMCB) graduate program offers Master of Science and Doctor of Philosophy degrees. Faculty are drawn from these disciplines:

- Animal Sciences
- Biochemistry and Molecular Biology
- Large Animal Clinical Sciences
- Obstetrics and Gynecology
- Zoology

Early in the program, students choose a faculty supervisor who will ensure the quality of their research experience. Students may also do optional rotations through the laboratories of one or more other faculty. The Annual Research Symposium features guest speakers and student research presentations. A weekly journal club and monthly seminars draw on the knowledge and diversity the campus offers in molecular and cell biology.

Core course requirements for the M.S. degree are BCH 5045 Graduate Survey of Biochemistry (4 cr.), registration in a 1-credit graduate seminar course, and successful completion of a course on responsible and ethical conduct of research. Core course requirements for the Ph.D. include BCH 5413 Mammalian Molecular Biology and Genetics (3 cr.) and GMS 6421 Cell Biology (3-4 cr.), registration in two graduate seminar courses, and successful completion of a course on responsible and ethical conduct of research.

Contact P.J. Hansen at pjhansen@ufl.edu or visit the program's website at <https://programs.ifas.ufl.edu/animal-molecular-and-cellular-biology/events/seminars/>

Degrees Offered

Degrees Offered with a Major in Animal Molecular and Cellular Biology

- Doctor of Philosophy
- Master of Science

Requirements for these degrees are given in the Graduate Degrees (<http://gradcatalog.ufl.edu/graduate/degrees/>) section of this catalog.

Courses

College of Veterinary Medicine courses

| Code | Title | Credits |
|-----------|---|---------|
| VEM 5205C | Concepts in Veterinary Spectrum of Care | 2 |
| VME 6934 | Topics in Veterinary Medical Sciences | 1-4 |
| VME 6936 | Seminar in Pathophysiology | 1 |

Student Learning Outcomes

Animal Molecular & Cellular Biology (MS)

SLO 1 Knowledge

Identify, recall, appraise, and interpret the principles of molecular and cellular biology and their application to comparative biology

SLO 2 Skills

Design, conduct and draw sound conclusions on scientific experiments

SLO 3 Professional Behavior

Interact with peers and instructors with honesty, cultural sensitivity and effective communication