

MASTER OF SCIENCE IN BIOMEDICAL SCIENCES, PLAN B, ANATOMICAL AND PHYSIOLOGICAL SCIENCES SPECIALIZATION

The Master of Science in Biomedical Sciences, Plan B, Anatomical and Physiological Sciences Specialization, is a one-year, non-thesis, coursework-intensive program, with an emphasis on upper-division and graduate-level coursework in gross anatomy, physiology, and neurobiology. The program can be completed in one year, culminating in written comprehensive exams. It was created to provide increased academic strength to students who aspire to attend professional school; however, it also serves students pursuing various careers in the biomedical sciences by providing them a solid biomedical foundation which can be applied to many career paths. Students must choose one of the following options to focus their studies: human anatomy, neurobiology, or animal anatomy.

Students interested in graduate work should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>). Visit the Department of Biomedical Sciences (<https://vetmedbiosci.colostate.edu/degree-programs/graduate/ms-biomedical-sciences/anatomical-and-physiological-sciences/>) for more information.

Requirements

Effective Fall 2018

Human Anatomy Option ¹

Code	Title	Credits
BMS 500	Mammalian Physiology I	4
BMS 501	Mammalian Physiology II	4
BMS 545	Neuroanatomy	5
BMS 575	Human Anatomy Dissection	4
BMS 610A	Managing a Career in Science: Survival Skills for Coursework (M.S.)	1
BMS 619	Advanced Human Gross Anatomy	2
Electives ²		12
Program Total Credits:		32

Neurobiology Option ¹

Code	Title	Credits
BMS 500	Mammalian Physiology I	4
BMS 503/NB 503	Developmental Neurobiology	3
BMS 505/NB 505	Neuronal Circuits, Systems and Behavior	3
BMS 545	Neuroanatomy	5
BMS 610A	Managing a Career in Science: Survival Skills for Coursework (M.S.)	1
Electives ²		16
Program Total Credits:		32

Animal Anatomy Option ¹

Code	Title	Credits
BMS 500	Mammalian Physiology I	4
BMS 501	Mammalian Physiology II	4
BMS 531	Domestic Animal Dissection	3
BMS 545	Neuroanatomy	5
BMS 610A	Managing a Career in Science: Survival Skills for Coursework (M.S.)	1
BMS 633	Domestic Animal Anatomy-Case Discussions	2
Electives ²		13
Program Total Credits:		32

Elective Courses ²

Code	Title	Credits
BC 351	Principles of Biochemistry	4
BC 563	Molecular Genetics	4
BC 565	Molecular Regulation of Cell Function	4
BMS 420	Cardiopulmonary Physiology	3
BMS 430	Endocrinology	3
BMS 631	Mechanisms of Hormone Action	2
BMS 632	Metabolic Endocrinology	2
BMS 640	Reproductive Physiology and Endocrinology	4
BMS 684	Supervised College Teaching	1-18

A minimum of 32 credits are required to complete this program.

¹ Comprehensive exam required

² Select courses with approval of advisor and graduate committee.

Requirements for All Graduate Degrees

For more information, please visit Requirements for All Graduate Degrees (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/graduate-study/procedures-requirements-all-degrees/>) in the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

Summary of Procedures for the Master's and Doctoral Degrees

NOTE: Each semester the Graduate School publishes a schedule of deadlines. Deadlines are available on the Graduate School website (<https://graduateschool.colostate.edu/deadline-dates/>). Students should consult this schedule whenever they approach important steps in their careers.

Forms (<https://graduateschool.colostate.edu/forms/>) are available online.

Step	Due Date
1. Application for admission (online)	Six months before first registration
2. Diagnostic examination when required	Before first registration
3. Appointment of advisor	Before first registration
4. Selection of graduate committee	Before the time of fourth regular semester registration

5. Filing of program of study (GS Form 6)	Before the time of fourth regular semester registration
6. Preliminary examination (Ph.D. and PD)	Two terms prior to final examination
7. Report of preliminary examination (GS Form 16) - (Ph.D. and PD)	Within two working days after results are known
8. Changes in committee (GS Form 9A)	When change is made
9. Application for Graduation (GS Form 25)	Refer to published deadlines from the Graduate School Website
9a. Reapplication for Graduation (online)	Failure to graduate requires Reapplication for Graduation (online) for the next time term for which you are applying
10. Submit thesis or dissertation to committee	At least two weeks prior to the examination or at the discretion of the graduate committee
11. Final examination	Refer to published deadlines from the Graduate School Website
12. Report of final examination (GS Form 24)	Within two working days after results are known; refer to published deadlines from the Graduate School website
13. Submit a signed Thesis/ Dissertation Submission Form (GS Form 30) to the Graduate School and Submit the Survey of Earned Doctorates (Ph.D. only) prior to submitting the electronic thesis/ dissertation	Refer to published deadlines from the Graduate School website.
14. Submit the thesis/dissertation electronically	Refer to published deadlines from the Graduate School website
15. Graduation	Ceremony information is available from the Graduate School website