

MASTER OF SCIENCE IN BIOMEDICAL SCIENCES, PLAN A

The traditional Master of Science in Biomedical Sciences, Plan A is a research-based program and typically takes two to three years to complete. While less comprehensive than a Ph.D., students complete a meaningful and original research project, which culminates in writing and defending a thesis. This option is designed for motivated students who have the ability to develop critical thinking skills and conduct research in one of the three primary areas of study in our department: cardiovascular physiology, reproductive physiology, and neurobiology.

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 (<http://csu-cvmb.colostate.edu/academics/bms/Pages/master-science-biomedical-sciences.aspx>) for more information.

Requirements Effective Fall 2021

Code	Title	Credits
Core Courses		
GRAD 544	Ethical Conduct of Research	1
STAR 511	Design and Data Analysis for Researchers I	4
Select one group from the following:		4-8
Group A:		
BMS 500 & BMS 501	Mammalian Physiology I and Mammalian Physiology II	
Group B:		
BMS 500 or BMS 501	Mammalian Physiology I and Mammalian Physiology II	
Select one from the following:		2
BMS 792A	Seminar: Biomedical Sciences	
BMS 792B	Seminar: Neurophysiology	
BMS 792C	Seminar: Reproductive Physiology	
Selected Courses ¹		
BC 563	Molecular Genetics	
BC 565	Molecular Regulation of Cell Function	
BMS 503/NB 503	Developmental Neurobiology	
BMS 505/NB 505	Neuronal Circuits, Systems and Behavior	
BMS 545	Neuroanatomy	
BMS 631	Mechanisms of Hormone Action	
BMS 632	Metabolic Endocrinology	
BMS 640	Reproductive Physiology and Endocrinology	
BMS 642	Research Techniques for Gametes and Embryos	
BMS 684	Supervised College Teaching	
Select one from the following:		1-18
BMS 695A	Independent Study: Developmental Anatomy	
BMS 695B	Independent Study: Microscopic Anatomy	

BMS 695C	Independent Study: Neuroanatomy	
BMS 695D	Independent Study: Radiographic Anatomy	
BMS 695E	Independent Study: Surgical Anatomy	
BMS 695F	Independent Study: Gross Anatomy	
Thesis ¹		
BMS 699	Thesis	Var.
Program Total Credits:		30

A minimum of 30 credits are required to complete this program.

¹ Select enough credits with approval of advisor and graduate committee to bring the program total to a minimum of 30 credits.

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