

# PH.D. IN BIOLOGICAL SCIENCE



Studies in the Department of Biology's Ph.D. in Biological Science program span everything from molecules to ecosystems and involve the study of organisms across all domains of life. Topics are rooted in both basic and applied research. Students work and study at sites within Colorado, across the United States, and worldwide. Some general areas of investigation include:

- anatomy/morphology
- behavior
- bioinformatics
- biological science education
- biotechnology
- cell biology
- conservation biology
- developmental biology
- disease biology
- ecology
- ecosystem science
- evolutionary biology
- genetics and genomics
- global change biology
- molecular biology
- neurobiology
- physiology
- systematics
- systems biology
- synthetic biology
- theoretical/mathematical biology

Department of Biology-Graduate Students (<https://www.biology.colostate.edu/graduate-students-2/>)

## Requirements Effective Fall 2018

Code	Title	Credits
<b>Ph.D. with prior Master's Degree</b>		
	Credit from Master's Degree	30
	Coursework completed in consultation with advisor <sup>1</sup>	42
BZ 799	Dissertation	
<b>Program Total Credits</b>		<b>72</b>

<sup>1</sup> A minimum of 32 credits earned at CSU since admission to the Graduate School. A minimum of 21 credits earned at CSU at the 500-level or higher.

Code	Title	Credits
<b>Ph.D. without prior Master's Degree</b>		
	Coursework completed in consultation with advisor <sup>1</sup>	72
BZ 799	Dissertation	
<b>Program Total Credits</b>		<b>72</b>

<sup>1</sup> A minimum of 62 credits earned at CSU since admission to the Graduate School. A minimum of 37 credits earned at CSU at the 500-level or higher. If students perform a continuous Master's/Ph.D. program at CSU, all credits earned for the Master's degree can be counted toward the Ph.D. credit requirements.

**A minimum of 72 credits are required to complete this program.**

### Additional Program Requirements:

- No specific courses must be taken in satisfaction of Departmental degree requirements; however, the candidate must be able to demonstrate a general knowledge of biological science as well as competence in specific areas of concentration.
- A graduate student participating in an advanced degree program of the Department of Biology must meet with the Graduate Advisory Committee at least once annually, and the student shall submit an annual report of progress toward the degree, signed by their Graduate Advisory Committee, to the Department Chair for review.
- A graduate degree in Biological Science indicates that the individual has achieved a professional level of competence in research as well as formal classwork. Consequently satisfactory progress in a research program must parallel the effort in coursework.
- A preliminary examination, administered by the Graduate Advisory Committee and consisting of both written and oral components, must be passed at least two semesters prior to the dissertation defense and graduation.
- A completed dissertation must be submitted to the Graduate Advisory Committee and approved following a successful oral defense (final examination).