Degree Requirements
The following requirements are in addition to, or further elaborate upon, those requirements outlined in The Graduate School Policy Guide (https://catalogs.northwestern.edu/tgs/academic-policies-procedures).

Total Units Required: 9

Required Courses
• Core courses: 4
  • Electives or additional core courses: 4
  • IBIS 432-0 Statistics for Life Sciences

Non-credit Required Courses
• IBIS 421-0 Rigor & Reproducibility in Research
• IBIS 423-0 Ethics in Biological Research

Other PhD Degree Requirements
• Examinations: qualifying examination during second year of study
• Research/Projects: laboratory research based on dissertation proposal
• PhD Dissertation: written dissertation; annual presentation of research-in-progress to thesis committee
• Final Evaluations: defense consisting of written dissertation, oral defense of dissertation to thesis committee, and public presentation of research accomplishments
• Publication: acceptance of at least one first-author data paper before defense
• Teaching: two quarters as a teaching assistant
• Other: three laboratory rotations in first year, intended to assist student in selecting thesis advisor; regular participation in seminars, journal clubs, and annual scientific retreat