

Integrated Biology, PhD

Academic Plans

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Integrated Biology, PhD

Course	Title	Hours
Academic Career		
Any Semester		
72 s.h. must be graduate level coursework; graduate transfer credits allowed upon approval. More information is included in the General Catalog and on department website. ^{a, b}		
Hours		0
First Year		
Fall		
BIOL:5312	Critical Analysis of Biological Research: Concepts, Methods, and Interpretation ^c	2
BIOL:5412	Fundamental Genetics: Graduate Lecture ^{d, e}	4
BIOL:6199	Research: Biology ^f	7
BIOL:6298	Concepts, Models, and Systems in Biology (COSMOS) Seminar I ^g	1
BIOL:7270	Principles of Scholarly Integrity ^h	1
Hours		15
Spring		
BIOL:5110	Practicum: College Teaching for Biology Teaching Assistants	2
BIOL:6199	Research: Biology ^f	7 - 8
BIOL:6299	Concepts, Models, and Systems in Biology (COSMOS) Seminar II ^{i, j}	2
Data informatics course ^k		3 - 4
Hours		14-16
Second Year		
Fall		
BIOL:5512	Readings in Genetics ^c	2
BIOL:6199	Research: Biology ^f	9
BIOL:6298	Concepts, Models, and Systems in Biology (COSMOS) Seminar I ^g	1
Advanced lecture course ^{d, k}		3 - 4
Hours		15-16
Spring		
BIOL:6188	Seminar: Writing in Natural Sciences ^l	2
BIOL:6199	Research: Biology ^f	11
BIOL:6299	Concepts, Models, and Systems in Biology (COSMOS) Seminar II ^{i, j}	2
Hours		15

Summer

Exam: Doctoral Comprehensive Exam ^m	
Hours	0

Third Year

Fall		
BIOL:6298	Concepts, Models, and Systems in Biology (COSMOS) Seminar I ^g	1
Data informatics/advanced lecture course ^{d, k}		3 - 4
Hours		4-5

Spring

BIOL:6299	Concepts, Models, and Systems in Biology (COSMOS) Seminar II ^{i, j}	2
Hours		2

Fourth Year

Fall		
BIOL:6298	Concepts, Models, and Systems in Biology (COSMOS) Seminar I ^g	1
Hours		1

Spring

BIOL:6199	Research: Biology ^f	2
Hours		2

Fifth Year

Fall		
BIOL:6298	Concepts, Models, and Systems in Biology (COSMOS) Seminar I ^g	1
BIOL:7270	Principles of Scholarly Integrity	1
Hours		2

Spring

BIOL:6199	Research: Biology ^f	2
Exam: Doctoral Final Exam ⁿ		
Hours		2
Total Hours		72-76

- a Students who take coursework to make up for undergraduate deficiencies (e.g., physics, biochemistry, or fundamental genetics) may not count that coursework towards the degree requirements.
- b Students must complete specific requirements in the University of Iowa Graduate College after program admission. Refer to the Graduate College website and the Manual of Rules and Regulations for more information.
- c Students must earn a B-minus or above in both BIOL:5312 and BIOL:5512; students who earn a lower grade in either will be required to retake the course.
- d Students may substitute one advanced lecture course with three 1 s.h. alternative advanced lecture courses; six of the 1 s.h. courses may be substituted for the two advanced lecture courses. See the General Catalog for list of approved courses.
- e Students who completed an equivalent course during their undergraduate studies may select another advanced lecture course; see the General Catalog for list of approved courses.
- f Students are required to complete a minimum of 6 s.h. in BIOL:6199. Additional enrollments beyond the 6 s.h. minimum can be applied toward the electives requirement.
- g Taken five fall semesters for 1 s.h. each.
- h Students must take BIOL:7270 every four years. Additional enrollments may apply to elective credits.
- i Students must take BIOL:6299 on an A-F graded basis. They may substitute another 2 s.h. seminar with approval of the director of graduate studies.
- j Taken three spring semesters for 2 s.h. each.

k Students must take one data informatics course, two advanced lecture courses, and an additional course from either category. See the General Catalog for lists of approved courses.

l Students must take BIOL:6188 on an A-F graded basis.

m The comprehensive exam requires current session enrollment.

n Dissertation defense.