

THE BIOLOGY MAJOR (BA OR BS)

Professor: David Thomas

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Biology is the study of life in all of its abundance, variety, and complexity. Students in the biology major gain a broad knowledge of biological fact and theory, from the molecular to the ecosystem level. They develop their abilities to observe, analyze, and solve problems involving living systems.

Both Bachelor of Science and Bachelor of Arts degrees are available in biology. The B.S. degree is designed primarily for students interested in the health professions, a graduate degree, or employment in biology related fields.

NOTES

* Students may use BIO 110, CHM 105, CHM 110, MTH 110, PHY 210/211 and PHY 240/241 to satisfy core requirements.

* CHM 105 is not required for students who enter Lyon College with a score of 25 or better on the ACT mathematics section (or equivalent SAT score) and a grade of "C" or better in high school chemistry.

Program: Biology

SUMMARY OF REQUIREMENTS FOR A MAJOR IN BIOLOGY LEADING TO A BACHELOR OF SCIENCE DEGREE

Item #	Title	Credits
BIO 110	Principles of Biology I	4
BIO 112	Principles of Biology II	4
BIO 250	Cell Biology	4
BIO 252	Genetics	4
BIO 340	Ecology	4
	Biology Electives (11-12 Credits)	11 - 12
BIO 495	Senior Evaluation	0
CHM 105	Introduction to Chemistry	4
CHM 110	General Chemistry I	4
CHM 120	General Chemistry II	4
CHM 210	Organic Chemistry I	4
CHM 220	Organic Chemistry II	4
MTH 110	Elementary Functions	3
	Physics Electives (8 credits)	8
	Sub-Total Credits	58-63

SUMMARY OF REQUIREMENTS FOR A MAJOR IN BIOLOGY LEADING TO A BACHELOR OF ARTS DEGREE

Item #	Title	Credits
BIO 110	Principles of Biology I	4
BIO 112	Principles of Biology II	4
BIO 250	Cell Biology	4
BIO 252	Genetics	4
BIO 340	Ecology	4
	Biology Electives (11-12 Credits)	11 - 12
BIO 495	Senior Evaluation	0
CHM 105	Introduction to Chemistry	4
CHM 110	General Chemistry I	4
CHM 120	General Chemistry II	4
MTH 110	Elementary Functions	3
	Physics Electives (8 credits)	8
	Sub-Total Credits	50-55

CATEGORY DESCRIPTIONS

Biology Electives (11-12 Credits)

Choose 3 upper division biology courses in the 300-400 level. At least 2 chosen electives must be 4-credit courses; one may be a 3-credit course. BIO 480 may not be used.

Physics Electives (8 credits)

Choose either Group A or Group B to fulfill the Physics requirement.

Students may use General Physics I or Fundamentals of Physics I to satisfy core requirements.

GROUP A

Item #	Title	Credits
PHY 210	General Physics I	3
PHY 211	General Physics I Laboratory	1
PHY 220	General Physics II	3
PHY 221	General Physics II Laboratory	1

Sub-Total Credits	8
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GROUP B

Item #	Title	Credits
PHY 240	Fundamentals of Physics I	3
PHY 241	Fundamentals of Physics I Laboratory	1
PHY 250	Fundamentals of Physics II	3
PHY 251	Fundamentals of Physics II Laboratory	1
	Sub-Total Credits	8