

# Zoo Sciences and Applied Conservation Biology

**General Studies for B.S. degree:**

Communication Outcome (6-9 credit hours):

2-3 courses, grade of C or better required

ENG 101 and ENG 102	—/—	COM 101	—
OR		(required for all students)	
ENG 103	—		

Analysis Outcome (20-21 credit hours; 11-12 credit hours satisfied within major requirements):

Students must take courses from each analytical block as directed:

<u>Critical Reading (1 Course)</u>	<u>Economics/Finance (1 Course)</u>
ENG 200-400 Literature, any	ECON 103, 104, OR FIN 131

<u>Logic/Critical Assessment (1 Course)</u>	
LING 150, PSYC 101 OR PHIL 210	—

Self and Cultural Awareness Outcome (17-18 credit hours):

Students must take courses from each awareness block as directed:

<u>Fine Arts (1 Course)</u>	<u>Perceptions &amp; Cultures (5 Courses)</u>
ART 140, 340, 341, 343,	4 Courses from different groups
FA 101, MUS 130, 132, 133, 134	GEO 205, 206
THE 100, 300	POLS 101, 201
	SOC 150, SWK 201
	REL, any
	SPAN, FREN, SPA252
	HE 250 or HE 300
	PHIL, any except PHIL210
	1 Course HIST
	HIST 103, 104, 210, 211

Students are admitted to Zoo Sciences and Applied Conservation based on separate application; students not meeting the minimum 22 Math ACT subscore or SAT equivalent will enter as a pre-Zoo Sciences major but will take the same courses as Zoo Sciences and Applied Conservation majors. To transition from pre-Zoo Sciences to Zoo Sciences and Applied Conservation, students must maintain a cumulative GPA of 2.5 in science and math and complete a minimum of 50 hours/semester of animal husbandry with the WLU Zoo Sciences animal collection for a minimum total of 200 hours by the end of the fourth semester of study. Please see the WLU catalog for more details.

**Core Courses: (26 hours)**

BIO 124/125 <sup>†</sup> (Prin Bio; F/S)	—/—	BIO 221 (Biostats; S)	—/—
BIO 200 (Botany & lab; F/S)	—	MATH 145 <sup>†</sup> (Precal)	—
BIO 202/203 (Zoo/lab; F/S)	—/—	CHEM100/101 <sup>‡</sup> (Foundations)	—/—
BIO 207 (Funds Eco&Biodiv; S)	—		

Approved 11/2015; effective Fall 2016; revised 2/26/2016; updated 12/19/2016; revised 4/11/2017; revised April/2019

<sup>1</sup>Courses fulfill General Studies Analysis Outcome for Quantitative and Scientific blocks.

**Required Courses (35 hours):**

BIO 180 (Prin. Zoo/Aquar Sci)	___ (3h) <sup>1</sup>	BIO 404/405 (Ecology/lab)	___ (4h)
BIO 181 (Zoo Sci training)	___ (0h)*	BIO 406 (Field Biology/lab)	___ (4h)
BIO 280 (Zoo Education)	___ (3h) <sup>1</sup>	BIO 440 (Conserv Bio/lab)	___ (4h)
BIO 380 (Zoo Ornithology/lab)	___ (4h) <sup>1</sup>	BIO 450 (Zoo An Behav/lab)	___ (4h) <sup>1</sup>
BIO 382 (Zoo Herp/lab)	___ (4h) <sup>1</sup>	BIO 480 (Bio Capstone)	___ (1h)
BIO 384 (Zoo Mamma/lab)	___ (4h) <sup>1</sup>		

\*all students in the Zoo Sciences and Applied Conservation major must take a mandatory husbandry training course while they are conducting the 200 volunteer hours.

**Zoo Sciences Track (14h)**

BIO 426 (Comp An Phys/lab)	___ (4h)
BIO 452 (Zoo Anim Med/lab)	___ (4h) <sup>1</sup>
BIO 454 (Internship)	___ (6h) <sup>1</sup> - two 3 credit internships

**Applied Conservation Track (13h)**

BIO 386 (Applied Con/lab)	___ (4h) <sup>1</sup>
BIO 428 (Evolutionary Bio)	___ (3h)
BIO 471 (Con Practicum)	___ (6h) <sup>1</sup> -this practicum is two 3 credit courses

<sup>1</sup>These courses (9) will have a Zoo Sciences and Applied Conservation course fee.

**General Electives:** Any 300-400 level general electives to total 120h (approximately 3-7 credit hours; 120h required for graduation).

Courses are not offered every semester/year; please consult with Biology advisor.

A cumulative GPA of 2.50 is required for all math and science courses, with a grade no lower than "C" in these courses.

**Other Requirements:**

A ten-week summer internship between the sophomore and junior year of study at an AZA-accredited zoo is required.

Students must volunteer with the Zoo Science animal collection and applied conservation labs for a minimum of 200 hours per year during the freshman and sophomore years of study as a pre-requisite for experience.

During the junior and senior year of study, students focusing on animal husbandry must complete two semesters (springs and/or falls) interning at an AZA-accredited facility; suggested semester schedules: 9-12 credit hours of coursework plus 3 credit hours of internship credit for the Zoo experience. Students in the Applied Conservation track must complete two conservation practicums with either applied conservation faculty at WLU or with approved conservation specialists in the field.

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