LMU
School of Mathematics & Sciences
LINCOLN MEMORIAL UNIVERSITY

Bachelor of Science in Conservation Biology
Research Track (128 Cr.)
Four-Year Curriculum Plan

Suggested four-year plan for freshmen entering LMU Fall 2020. Always consult LMU's Undergraduate Catalog and discuss with your academic advisor every semester prior to registering for classes. Timing of courses may deviate from this plan based on several factors

First Year — Fall Semester _____	Cr.
ENGL 101 Composition I*	3
UACT 100 Strategies for College Success*	2
BIOL 111 General Biology I & Lab*#	4
Prerequisite: ACT/SAT reading score of 23 placement in ENG 101 or higher, OR successful completion of BIOL 100	
SOCI or PSYC 100*#	3
CHEM 111 General Chemistry I & Lab#	4
Prerequisite: Successful completion (C- or better) in Math 105, Math 115, or Math 120 or a Math ACT of 21, Fall	
Total Credits	**16**

- **You should be exploring opportunities to participate in service initiatives.**
- **Have you joined a club? Think about the Wildlife Society and Earth Club**

Second Year — Fall Semester _____	Cr.
HIST Requirement*	3
ENGL 240, 250 or 260*	3
Prerequisite for PHIL 430	
ISYS 100 Computer Literacy*	2
Conservation Biology Elective#	3
MATH 270 Probability & Statistics#	3
BIOL 290 Writing in the Life Sciences#	1
Total Credits	**16**

- **You should be exploring career opportunities and internships**
- **Keep track of the number of 300/400 level courses you take. You need to complete at least 42 credits for graduation**

Third Year — Fall Semester _____	Cr.
PHIL 330 or 430 Ethics#	3
Prerequisite: ENGL 240 or 250	
Biodiversity: Invertebrate Option#	4
See page 2 for choices	
Conservation Biology Elective#	4
See page 2 for choices	
BIOL 370 Ecology & Lab#	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall	
CBIO 397/X JR Research Seminar#	1
Prerequisite: Successful completion (C- or better) of ENGL 102 or equivalent	
Total Credits	**16**

- **Make plans to take graduate school entrance exams (e.g. GRE)**
- **Identify graduate programs and/or internships in the field of interest**

Fourth Year — Fall Semester _____	Cr.
Biodiversity: Plant Option#	4
Biodiversity: Vertebrate Option#	4
Conservation Biology Elective#	4
CBIO 421 Geographic Info. Systems I#	3
Prerequisite: Successful completion (C- or better) of ISYS 100, Fall even years	
CBIO 483 UG Research in Con Bio#	2
Total Credits	**17**

- **Complete the Intent to Graduate form during your Academic Advising Meeting.**
- **Start applying to graduate programs and searching for jobs in field of interest**

First Year — Spring Semester _____	Cr.
ENGL 102 Composition II*	3
Prerequisite for BIOL 290	
LNCN 100 Lincoln's Life & Legacy*	1
BIOL 112 General Biology II & Lab*#	4
Prerequisite: Successful completion (C- or better) of BIOL 111 with lab	
CHEM 112 General Chemistry II & Lab#	4
Prerequisite: Successful completion (C- or better of CHEM 111 with lab, Spring	
MATH 150 Calculus I	4
Prerequisite: Successful completion (C- or better) of MATH 120 or ACT sub-score of 26 or higher	
Total Credits	**17**

- **Think about how you can explore career options during the summer**

Second Year — Spring Semester _____	Cr.
HIST Requirement*	3
Biodiversity: Vertebrate Option#	4
See page 2 for choices	
BIOL 315 Molecular Genetics & Lab#	4
Prerequisite: Successful completion (Cor better) of BIOL 111 and 112 and CHEM 111 with labs	
BIOL 380 Research Design & Analysis#	3
Prerequisite: Successful completion (C- or better) of MATH 270, BIOL 111 and 112 with labs	
CBIO 200 Conservation Biology#	3
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring	
Total Credits	**17**

- **Narrow down career options. Gather information on what is needed to achieve those careers, i.e. internships, experience, professional/graduate school**

Third Year — Spring Semester _____	Cr.
COMM 200 Fund Speech & Comm.*	3
Fine Arts Elective*	3
BIOL 410 Evolution#	3
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring odd years	
Conservation Biology Elective#	3
See page 2 for choices	
ECON 212 Principles of Microeconomics#	3
Total Credits	**15**

- **Study for graduate school exams and take exams over the summer**
- **Apply for summer internships in field of interest or research experiences**

Fourth Year — Spring Semester _____	Cr.
Elective of student's choice	3
LNCN 300 American Citizenship*	1
Conservation Biology Elective#	3
CBIO 400 Conserv Bio. App. & Analy.#	3
Prerequisite: Successful completion (C- or better) of BIOL 200, 370 with labs and two biodiversity courses, Spring	
CBIO 422 Geographic Info Systems II#	3
Prerequisite: Successful completion (C- or better) of CBIO 421, Spring odd years	
CBIO 483 UG Research in Con Bio#	1
CBIO 497/Z Senior Research Seminar#	1
Total Credits	**15**

- **Look for opportunities to present research**
- **Apply to jobs in career interest, if entering the workforce**

***LMU Core Curriculum Requirement**: See LMU undergraduate catalog for details
 # Major-Specific Requirement/Collateral Requirement: These courses must be passed with at least a C- or better to progress in the program. See LMU catalog for specific grade requirements.

Course Options for Program Track Electives

Biodiversity Invertebrate Options

Must select *one* of the following courses

	Cr.
BIOL 340 Invertebrate Zoology Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall	4
BIOL 350 Entomology Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall even years	4

- **If the course has a corresponding laboratory course, the laboratory course MUST be taken**
- **Must be passed with a C- or better to progress in the program.**

Biodiversity Plant Options

Must select *one* of the following courses

	Cr.
BIOL 320 Principles of Botany Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring	4
BIOL 330 Field Botany Prerequisite: completion (C- or better) of BIOL 111 and 112 with labs, Fall	4

- **If the course has a corresponding laboratory course, the laboratory course MUST be taken**
- **Must be passed with a C- or better to progress in the program.**

Biodiversity Vertebrate Options

Must select *two* of the following courses

	Cr.
CBIO 330 & Lab Ichthyology Prerequisite: Successful completion (C- or better) of BIOL 111 and BIOL 112 with labs, Fall odd years	4
CBIO 340 & Lab Herpetology Prerequisite: Successful completion (C- or better) of BIOL 111 and BIOL 112 with labs, Fall odd years	4
CBIO 350 & Lab Ornithology Prerequisite: Successful completion (C- or better) of BIOL 111 and BIOL 112 with labs, Spring even years	4
CBIO 360 & Lab Mammalogy Prerequisite: Successful completion (C- or better) of BIOL 111 and BIOL 112 with labs, Fall even years	4

- **If the course has a corresponding laboratory course, the laboratory course MUST be taken**
- **Must be passed with a C- or better to progress in the program.**

Credit Hour Requirements

In order to graduate you need to complete a minimum of 128 credit hours. At least 42 of these hours must be at the 300/400 level. Track your hours in each of these categories as you progress to ensure timely completion of the program.

Semester	# of credit hours				Cumulative GPA
	Current semester	300/400	Total Earned (Add all semesters)	Total 300/400 (Add all semesters)	
1st Yr. Fall					
1st Yr. Spring					
2nd Yr. Fall					
2nd Yr. Spring					
3rd Yr. Fall					
3rd Yr. Spring					
4th Yr. Fall					
4th Yr. Spring					

Conservation Biology Electives

Must select *fifteen credits* from the following courses

	Cr.
BIOL 311 Integrated Vertebrate A&P I Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 and 112 with labs, Fall	4
BIOL 312 Integrated Vertebrate A&P II Prerequisite: completion (C- or better) of BIOL 311 with labs, Spring	4
BIOL 336 General Microbiology Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 and 112 with labs, Spring	4
BIOL 441 Biochemistry I Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 221 and 222 with labs, Fall	4
BIOL 442 Biochemistry II Prerequisite: Successful completion (C- or better) of BIOL 442 with lab, Spring	4
BIOL 450 Molecular Cell Biology Prerequisite: Successful completion (C- or better) of BIOL 315 with lab and BIOL 441, Spring	4
CBIO 210 Wildlife Management Prerequisite: Successful completion (C- or better) of BIOL 111 and BIOL 112 with labs, Fall	3
CBIO 220 Freshwater Fisheries Management Prerequisite: Successful completion (C- or better) of BIOL 111 and BIOL 112 with labs, Spring even years	4
CBIO 250 Soils Prerequisite: Successful completion (C- or better) of CHEM 111 with Lab, Fall odd years	4
CBIO 370 Land Use & Environmental Policy Prerequisite: Successful completion (C- or better) of CHEM 111 with lab, Fall odd years	3
CBIO 410 Environmental Issues in Appalachia Offered as needed	3
CBIO 420 Wetland Ecosystems Prerequisite: Successful completion (C- or better) of BIOL 370 with lab, Fall even years	3
CBIO 430 Terrestrial Ecosystems Prerequisite: Successful completion (C- or better) of BIOL 370 with lab, Spring even years	3
CBIO 440 Freshwater Ecosystems Prerequisite: Successful completion (C- or better) of BIOL 370 with lab, Spring odd years	3
CHEM 221 Organic Chemistry I Prerequisite: Successful completion (C- or better) of CHEM 112 with lab, Fall	4
CHEM 222 Organic Chemistry II Prerequisite: Succesful completion (C- or better) of CHEM 222 with lab, Spring	4
CHEM 230 Environmental Chemistry Prerequisite: Successful completion (C- or better) of CHEM 220 with lab, Spring	4
GEOG 300 Environmental Geography Prerequisite: Successful completion (C- or better) of ENGL 102 and Gen Ed core curriculum, Behavioral and Social Sciences	4

- **If the course has a corresponding laboratory course, the laboratory course MUST be taken**
- **Must be passed with a C- or better to progress in the program.**

Career Exploration

Career	Description	Career Preparation – internship, research experience, coursework, etc	Career Qualifications
			BS MS PhD Certifications
			BS MS PhD Certifications
			BS MS PhD Certifications