

First Year — Fall Semester	Cr.
ENGL 101 Composition I*	3
UACT 100 Strategies for College Success*	1
BIOL 111 General Biology I & Lab*#	4
<small>Prerequisite: Successful Completion (C- or better) BIOL 100, placement in ENGL 101, OR ACT/SAT reading/verbal score of 23</small>	
MATH 150 Calculus I*#	4
<small>Prerequisite: Successful completion (C- or better) of MATH 120 or ACT sub-score of 26 or higher</small>	
CHEM 111 General Chemistry I & Lab#	4
<small>Prerequisite: Successful completion (C- or better) of Math 105, 115, or 120, OR Math ACT sub-score of 23 higher, Fall</small>	

**Total Credits 16**

- You should be exploring opportunities to participate in service initiatives
- Have you joined a club? Think about pre-med or the Wildlife Society

Second Year — Fall Semester	Cr.
Ethics, Fine Arts, Humanities*	3
COMM 200 Fund Speech and Comm.*	3
<small>Prerequisite for BIOL 380</small>	
CHEM 221 Organic Chemistry I & Lab#	4
<small>Prerequisite: Successful completion (C- or better) of CHEM 112 with lab, Fall</small>	
PHYS 211 General Physics I & Lab#	4
<small>Prerequisite: Successful completion (C- or better) in MATH 120, or a Math ACT sub-score of 26 or higher, Fall</small>	
BIOL 290 Writing in the Life Sciences#	1
<small>Prerequisite: Successful completion (C- or better) in ENGL 102</small>	

**Total Credits 15**

- 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 36 credits for graduation

Third Year — Fall Semester	Cr.
History Requirement*	3
Elective-Any course of your choice	3
BIO 310 Comparative Vert. Anat Lab#	4
<small>Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 and 112 with labs, Fall</small>	
BIOL 370 Ecology & Lab#	4
<small>Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall</small>	
BIOL 397/X JR Sc Sem and Writing#	1

**Total Credits 15**

- Explore opportunities for internships or research experiences
- Explore career interest and determine qualifications. Begin to plan how you will obtain these qualifications

Fourth Year — Fall Semester	Cr.
Elective-Any course of your choice	3
CIVX 300 American Civics*	2
Track Elective Course (3-4 cr)#	4
<small>See page 2 for choices</small>	
Invertebrate Option#	4
BIOL 483 Research in Biology#	1

**Total Credits 14**

- Complete the Intent to Graduate form during your Academic Advising Meeting.
- Apply to graduate/professional program, if applicable
- Look for opportunities to present research
- Explore job opportunities in your career

First Year — Spring Semester	Cr.
ENGL 102 Composition II*	3
LNCN 100 Lincoln's Life & Legacy*	1
BIOL 112 General Biology II & Lab*#	4
<small>Prerequisite: Successful completion (C- or better) of BIOL 111 with lab</small>	
CHEM 112 General Chemistry II & Lab*#	4
<small>Prerequisite: Successful completion (C- or better) of CHEM 111, Spring</small>	
MATH 270 Probability and Statistics#	3
<small>Prerequisite for BIOL 380</small>	

**Total Credits 15**

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

Second Year — Spring Semester	Cr.
HIST Requirement*	3
CHEM 222 Organic Chemistry II & Lab#	4
<small>Prerequisite: Successful completion (C- or better) of CHEM 221 with lab, Spring</small>	
Behavior or Social Science Requirement*	3
BIOL 380 Research Design & Analysis#	3
<small>Pre-requisite: Successful completion (C- or better) of MATH 270 and BIOL 111 and 112 with labs</small>	
BIOL 315 Molecular Genetics & Lab#	4
<small>Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 with lab</small>	

**Total Credits 17**

- Narrow down career options. Gather information on what is needed to achieve those careers, i.e. internships, experience, professional/graduate school (will require an entrance exam)

Third Year — Spring Semester	Cr.
Ethics Option#	3
Choose BIOL 320 or 330 Botany & Lab#	4
<small>Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring</small>	
BIOL 336 General Microbiology & Lab#	4
<small>Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 and 112 with labs, Spring</small>	
Any electives of your Choice	5

**Total Credits 16**

- Apply for summer internships or research experiences.
- Make plans to study for and take professional/graduate school entrance exams, if applicable

Fourth Year — Spring Semester	Cr.
Elective - Any course of your choice	6
Track Elective Course (3-4 cr)#	4
<small>See page 2 for choices</small>	
BIOL 410 Evolution#	3
<small>Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring odd years</small>	
BIOL 497/X Sr Science Sem & Writing#	1
<small>Prerequisite: Successful completion (C- or better) of BIOL 397</small>	

**Total Credits 14**

- 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

\*If there is a corresponding lab, students must take the lab.

\*A course cannot count for plant diversity or invertebrate option and upper-level elective

Ethics Options	Cr.
Must select <i>one</i> of the following courses	
BIOL 224 Ethics in Life Science	3
PHIL 330 Ethics	3
PHIL 430 Medical Ethics	3
Prerequisite: Successful completion (C- or better) of ENGL 240 or 250	
<ul style="list-style-type: none"> <li>• Must be passed with a C- or better to progress in the program.</li> </ul>	

Invertebrate Options	Cr.
Must select <i>one</i> of the following courses	
BIOL 340 Invertebrate Zoology	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall odd years	
BIOL 350 Entomology	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall even years	
VHS 300 Vet Parasitology & Entomology	4
Prerequisite: BIOL 112; Junior Standing, Fall	
<ul style="list-style-type: none"> <li>• If the course has a corresponding laboratory course, the laboratory course MUST be taken</li> <li>• Must be passed with a C- or better to progress in the program.</li> </ul>	

Upper-Level Track Electives	Cr.
Select <i>eight</i> credit hours from the following courses	
BIOL 320 Principles of Botany	4
BIOL 330 Field Botany	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall	
BIOL 334 General Histology	2
Prerequisite: Successful completion (C- or better) of BIOL 311 with lab, Spring	
BIOL 340 Invertebrate Zoology	4
BIOL 350 Entomology	4
BIOL 360 Immunology	3
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 and 112 with labs, Fall	
BIOL 365 General Physiology	4
BIOL 395 and 495 Special Topics	4
BIOL 441 and 442 Biochemistry I&II	4
Prerequisite: Successful completion (C- or better) of BIOL 111 with lab and CHEM 221 and 222 with labs, Fall	
BIOL 430 Topics in Microbiology	3
BIOL 450 Molecular Cell Biology	3
BIOL 460 Development in Biology	3
BIOL 483 Research in Biology	1
VHS 300 Vet. Parasitology and Entomology	4
CBIO 330 Ichthyology	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall odd years	
CBIO 340 Herpetology	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring odd years	
CBIO 350 Ornithology	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring even years	
CBIO 360 Mammalogy	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall even years	
CBIO 420 Wetland Ecosystems	3
Prerequisite: Successful completion (C- or better) of BIOL 370 with lab, Fall odd years	
CBIO 430 Terrestrial Ecosystems	3
Prerequisite: Successful completion (C- or better) of BIOL 370 with lab, Spring even years	
CBIO 440 Freshwater Ecosystems	3
Prerequisite: Successful completion (C- or better) of BIOL 370 with lab, Spring odd years	
<ul style="list-style-type: none"> <li>• If the course has a corresponding laboratory course, the laboratory course MUST be taken</li> <li>• Must be passed with a C- or better to progress in the program.</li> </ul>	

Botany Options	Cr.
Must select <i>one</i> of the following courses	
BIOL 320/L Principles of Botany	4
BIOL 330/L Field Botany	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall	

Credit Hour Requirements					
In order to graduate you need to complete a minimum of 122 credit hours. At least 36 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)	
1 <sup>st</sup> Yr. Fall					
1 <sup>st</sup> Yr. Spring					
2 <sup>nd</sup> Yr. Fall					
2 <sup>nd</sup> Yr. Spring					
3 <sup>rd</sup> Yr. Fall					
3 <sup>rd</sup> Yr. Spring					
4 <sup>th</sup> Yr. Fall					
4 <sup>th</sup> Yr. Spring					