

Bachelor of Science in Biology Pre-Health Professions Track (122Cr.) 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 a number of factors.

First Year — Fall Semester	Cr.
ENGL 101 Composition I*	3
UACT 100 Strategies for College Success*	2
BIOL 111 General Biology I & Lab*# Prerequisite: Successful Completion (C- or better) BIOL 100, placement in ENGL 101, OR ACT/SAT reading/verbal score of 23	4
MATH 120 Trigonometry*# Prerequisite: Successful completion (C- or better) of MATH 115, OR Math ACT sub-score of 23 or higher	3
BIOL 194 Pre-Med Seminar#	1
CHEM 111 General Chemistry I & Lab [#] Prerequisite: Successful completion (C ⁻ or better) of Math 105, 115, or 120, OR Math ACT sub-score of 23 higher, Fall	4
Total Credits	17
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	Have you joined the Pre-Med Club?	

Second Year — Fall Semester	Cr.
ISYS 100 Computer Literacy*	2
PSYC 100 Intro to Psychology*#	3
BIOL 315 Molecular Genetics & Lab#	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 with labs	
CHEM 221 Organic Chemistry I & Lab#	4
Prerequisite: Successful completion (C- or better) of CHEM 112 with lab, Fall	
PHYS 211 General Physics I & Lab#	4
Prerequisite: Successful completion (C- or better) in MATH 120, or a Math	

Total Credits 17

- You should be exploring opportunities to volunteer and get involved in activities on campus including leadership roles.
- Keep track of the number of 300/400 level courses you take. You need to
 complete at least 43 credits for graduation.

ACT sub-score of 26 or higher, Fall

complete at least 42 credits for graduation	
Third Year — Fall Semester	Cr.
History Requirement*	3
Fine Arts Requirement*	3
ENGL 240, 250 or 260*	3
BIOL 441 Biochemistry I [#] Prerequisite: Successful completion (C- or better) of BIOL 111 with lab and CHEM 221 and 222 with labs, Fall	4
BIO 310 Comp. Vert. Anatomy & Lab [#] Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 and CHEM 111 and 112 with labs, Fall	3

Total Credits 17

- Make plans to prepare and take graduate/professional school entrance exams (e.g., DAT, GRE, MCAT, PA-CAT, OAT)
- Start thinking about who you would like to write you a letter of recommendation

Fourth Year — Fall Semester	Cr.
LNCN 300 American Citizenship*	1
PHIL 430 Medical Ethics*#	3
Prerequisite: Successful Completion (C- or better) of ENGL 240 or 250	
Track Elective Course (3-4 cr)#	4
See page 2 for choices	
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See page 2 for choices	
Total Credits	12

- Submit application to graduate/professional school
- Conduct a mock interview
- Complete the Intent to Graduate form after you have registered for your spring semester
- Participate in a research project

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

Total Credits 15

- Explore which graduate/professional school entrance exams you will need to take (e.g., DAT, GRE, MCAT, PA-CAT, OAT)
- Seek shadowing and/or volunteer opportunities during the summer.

Second Year — Spring Semester	Cr.
COMM 200 Fund Speech & Communication*	3
SOCI 100 Intro to Sociology*#	3
BIOL 380 Research Design & Analysis#	3
Prerequisite: Successful completion (C- or better) of MATH 270 and BIOL 111 and 112 with labs	
CHEM 222 Organic Chemistry II & Lab#	4
Prerequisite: Successful completion (C- or better) of CHEM 221 with lab, Spring	
PHYS 212 General Physics II & Lab#	4
Prerequisite: Successful completion (C- or better) in PHYS 211 with lab, Spring	

Total Credits 17

- Plan out your last four semesters think about what classes you need to prepare for your entrance exam; these should be completed by the end of your third year
- Keep track of the number of hours you are completing in volunteer experiences and shadowing.

Third Year — Spring Semester	_ Cr.
HIST Requirement*	3
300-level PSYC [#]	3
BIOL 387/X JR Pre-Med Sc Sem and Writ Prerequisite: Successful completion (C- or better) of ENGL 102 or equival	•
Molecular and Cell Elective Course# See page 2 for choices	4
Organismic Elective Course#	4

Total Credits

- Explore opportunities to conduct research in your fourth year
 Schedule your graduate/professional school entrance exams (e.g., DAT, GRE, MCAT, PACAT, OAT) date for the summer and begin studying
- Identify writers for letters of recommendation and ask them before leaving for the summer

Fourth Year — Spring Semester	Cr.
Elective - Any course of your choice	3
BIOL 487/Z Sr Pre-Med Sc Sem & Writing [#] Prerequisite: Successful completion (B- or better) of BIOL 387	1
Track Elective Course (3-4 cr)# See page 2 for choices	4
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Total Credits

12

- Participate in a research project. Explore opportunities to present
- Explore gap year options, if applicable

*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

Required to take at least 23 credit hours

Organismic Elective Course	Cr.
Must select one of the following courses	
BIOL 336 General Microbiology	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 and 112 with labs, Spring	
BIOL 365 General Physiology	4
Prerequisite: Successful Completion (C- or better) BIOL 310 lecture with lab, Spring	
PEXS 300 Physiology of Exercise	3
VHS 300 Vet Parasitology & Entomology	4
Prerequisite: Successful Completion (C- or better) of BIOL 112 with lab; Junior Standing, Fall	

- 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.

Upper-Level Track Electives	Cr.
Must select at least three of the following courses	
AHSC 300 Medical Terminology	3
BIOL 320 Principles of Botany	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with	
labs, Spring PIOL 224 Conoral Histology	2
BIOL 334 General Histology Prerequisite: Successful completion (C- or better) of BIOL 310, Spring	2
BIOL 336 General Microbiology	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with	•
labs and CHEM 111 and 112 with labs, Spring	_
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
Prerequisite: Successful completion of BIOL 310 with lab, Spring	
BIOL 370 Ecology	4
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall	
BIOL 410 Evolution	3
Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring odd years	
BIOL 411 Advanced Human Anatomy	4
Prerequisite: Successful completion (B- or better) of BIOL 311 and 312 with labs AND consent of instructor, Spring	
BIOL 442 Biochemistry II	4
Prerequisite: Successful completion (C- or better) of BIOL 441, Spring	7
BIOL 450 Molecular Cell Biology	4
Prerequisite: Successful completion (C- or better) of BIOL 315 with lab and	
BIOL 441, Spring	2
BIOL 460 Developmental Biology Prerequisite: Successful completion (C- or better) of BIOL 310 with lab and	3
BIOL 315 with lab, Spring odd years	
BIOL 483 Research in Biology (max 3)	1-3
Prerequisite: Junior standing and consent of faculty supervisor,	
Fall/Spring/Summer	3
PEXS 300 Physiology of Exercise	3
PEXS 372 Kinesiology and Biomechanics	3
Prerequisite: MATH, Spring	
PSYC 475 Neuropsychology	3
Prerequisite: PSYC 100, Fall	
VHS 300 Vet Parasitology &Entomology	4
Prerequisite: BIOL 112; Junior Standing, Fall	2
VHS 330 One Health Prerequisite: ENGL 102 and Junior Standing, Fall	3
VHS 400 Zoonotic Diseases Vet/Publ. HIth	3
Prerequisite: BIOL 112 and Junior Standing, Fall online	3

- Prerequisite: BIOL 112 and Junior Standing, Fall online

 Course cannot count for the Molecular/Cell or Organismic level and upper level
- 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.

Molecular and Cell Courses	Cr.
Must select one of the following courses	
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 442 Biochemistry II	4
Prerequisite: Successful completion (C- or better) of BIOL 441, Spring	
BIOL 450 Molecular Cell Biology	4
Prerequisite: Successful completion (C- or better) of BIOL 315 with lab and BIOL 441, Spring	
If the course has a corresponding laboratory course, the laboratory course	MUST be

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- 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 122 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	Current semester	300/400	Total Earned (Add all semesters)	Total 300/400 (Add all semesters)	Cumulative GPA
1 st Yr. Fall					
1 st Yr. Spring					
2 nd Yr. Fall					
2 nd Yr. Spring					
3 rd Yr. Fall					
3 rd Yr. Spring					
4 th Yr. Fall					
4 th Yr. Spring					

Professional Tracking						
	Average	You				
Entrance exam						
Cumulative GPA						
Science GPA						
Shadowing hours						
Volunteer hours						
Other:						
Other:						
Other:						
