



College of Mathematics,
Sciences & Health Professions

LINCOLN MEMORIAL UNIVERSITY

Bachelor of Science in Biology
Pre-health (122 Cr.)
Four-Year Curriculum Plan

Suggested four-year plan for freshmen entering LMU Fall semester. 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

Plan is in accordance with the 2026-2027 catalog

Fall Courses — First Year	Cr
ENGL 101 Composition I ^a	3
UACT 100 Strategies for College Success ^a	1
BIOL 194 Pre-health Career Seminar I ^b	1
PSYC 100 Intro to Psychology ^{ac}	3
BIOL 111 General Biology I & Lab ^{ab}	4
CHEM 111 General Chemistry I & Lab ^{ac}	4

Total Credits 16

- You should be exploring opportunities to participate in service initiatives
- Have you joined the pre-health club?

Spring Courses — First Year	Cr
ENGL 102 Composition II ^a	3
LNCN 100 Lincoln's Life & Legacy ^a	1
MATH 120 Trigonometry ^{ac}	3
BIOL 112 General Biology II & Lab ^c	4
CHEM 112 General Chemistry II & Lab ^c	4

Total Credits 15

- Seek shadowing and /or volunteer opportunities during the summer

Fall Courses — Second Year	Cr
MATH 270 Probability and Statistics ^c	3
BIOL 294 Pre-health Career Seminar II ^b	1
BIOL 315 Molecular Genetics & Lab ^b	4
CHEM 221 Organic Chemistry I & Lab ^b	4
PHYS 211 General Physics I & Lab ^b	4

Total Credits 16

- You should be exploring opportunities to volunteer and get involved in activities on campus including leadership roles

Spring Courses — Second Year	Cr
Ethics, Fine Arts, or Humanities ^a	3
<small>Must be two separate prefixes</small>	
BIOL 290 Writing in the Life Sciences ^b	1
BIOL 380 Research Design & Analysis ^b	3
CHEM 222 Organic Chemistry II & Lab ^b	4
PHYS 212 General Physics II & Lab ^b	4

Total Credits 15

- Plan out your last four semesters – think about what classes you need to prepare for your entrance exam and required courses for graduate/professional school

Fall Courses — Third Year	Cr
HIST Requirement ^a	3
COMM 200 Fund Speech & Communication ^a	3
SOCI 100 Intro to Sociology ^{ac}	3
BIOL 310 Comp. Human & Vert. Anat Lab ^b	4
BIOL 441 Biochemistry I ^b	4

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

Spring Courses — Third Year	Cr
HIST Requirement ^a	3
Ethics elective ^b (BIOL 224, BUSN-250 ^a , PHIL 430 ^a)	3
BIOL 387 or 397/X Junior Seminar/Writing ^{b/a}	1
Molecular and Cell Elective Course (see back) ^b	3
Organismic Elective Course (see back) ^b	4

Total Credits 14

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

Fall Courses — Fourth Year	Cr
CIVX 300 American Civics ^a	2
Free Elective(s) – Any Course	3
Upper-level PSYC elective ^b	3
<small>Choose any 200, 300, or 400-level</small>	
Upper-Level Track Elective (see back) ^b	3
Upper-Level Track Elective (see back) ^b	4

Total Credits 15

- Complete the Intent to Graduate form during your Academic Advising Meeting.
- Submit application to graduate/professional school
- Participate in a research project

Spring Courses — Fourth Year	Cr
Free Elective(s) – Any Course	6
BIOL 487 or 497/X Senior Seminar/Writing ^{b/a}	1
Upper-Level Track Elective (see back) ^b	3
Upper-Level Track Elective (see back) ^b	4

Total Credits 14

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

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

Course Options for Program Track Electives

Required to take at least 21 credit hours total

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

**A course cannot count for organismic or molecular and cell option and upper-level elective

Organismic Elective Course <small>Must select one of the following courses</small>	Cr.
BIOL 336 General Microbiology	4
BIOL 365 General Physiology	4
PEXS 300 Exercise Physiology	3
VHS 300 Vet Parasitology & Entomology	4

Molecular and Cell Courses <small>Must select one of the following courses</small>	Cr.
BIOL 360 Immunology	3
BIOL 442 Biochemistry II	3-4
BIOL 450 Molecular Cell Biology	3

Upper-Level Track Electives <small>Remaining hours to add to 21 credit hours total**</small>	Cr.
AHSC 300 Medical Terminology	3
BIOL 320 Principles of Botany	4
BIOL 334 General Histology	3
BIOL 336 General Microbiology	4
BIOL 360 Immunology	3
BIOL 364 Toxicology	2
BIOL 365 General Physiology	4
BIOL 370 Ecology	4
BIOL/CHEM 395 Special Topics	1-3
BIOL 410 Evolution	3
BIOL 411 Advanced Human Anatomy	4
BIOL 430 Topics in Microbiology	3
BIOL 442 Biochemistry II	4
BIOL 450 Molecular Cell Biology	3
BIOL 460 Developmental Biology	2
BIOL 483 Research in Biology (max 3)	1-3
BIOL 485 Grad/Prof Entrance Exam Sem	1
BIOL/CHEM 495 Special Topics	1-3
CHEM 483 Research in Chemistry (max 3)	1-3
PEXS 300 Exercise Physiology	3
PEXS 372 Kinesiology and Biomechanics	3
PSYC 475 Neuropsychology	3
VHS 300 Vet Parasitology & Entomology	4
VHS 330 One Health	3
VHS 400 Zoonotic Diseases Vet/Pub Hlth	3

Credit Hour Requirements					
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 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:		
Alternative paths/Gap year options		