LMU
School of Mathematics & Sciences
LINCOLN MEMORIAL UNIVERSITY

Bachelor of Science in Chemistry
Pre-medical/Pharmacy 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 a number of factors

Fall Courses — First Year	Cr.
ENGL 101 Composition I*	3
UACT 100 Strategies for College Success*	2
BIOL 111 General Biology I & Lab*#	4
Prerequisite: ACT reading score of 23 (or analogous SAT verbal score), placement in ENG 101 or higher, OR successful completion of BIOL 100	
CHEM 111 General Chemistry I & Lab#	4
Prerequisite: (1) a Math ACT of 21 or higher or (2) successful (C⁻ or better) grade in Math 105, Math 115, or Math 120.	
MATH 150 Calculus I*#	4
You must take this as a prerequisite for PHYS 211 and CHEM 310	
Total Credits	**17**

- **You should be exploring opportunities to participate in service initiatives.**
- **Have you joined the Pre-Med or Chemistry club?**

Fall Courses — Second Year	Cr.
BIOL 315 Molecular Genetics & Lab#	4
Prerequisites: Successful completion (C- or better) of BIOL 111 and 112 and CHEM 111 with labs.	
CHEM 221 Organic Chemistry I & Lab#	4
Prerequisite: successful completion (C- or better) of CHEM 112 with lab.	
PHYS 211 General Physics I & Lab#	4
Prerequisite: (1) a Math ACT sub-score of 26 or higher, or (2) successful completion (grade of C- or better) in MATH 120 Trigonometry	
HIST Requirement*	3
Total Credits	**16**

- **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 42 credits for graduation**

Fall Courses — Third Year	Cr.
CHEM 331 Quantitative & Instrumental Analysis#	3
Prerequisites: Successful completion (C- or better) of CHEM 221	
CHEM 397 JR Sc Sem and Writing#	1
Prerequisites: Successful completion (C- or better) of ENGL 102 or equivalent.	
ENGL 240, 250 or 260*	3
BIOL 441 Biochemistry#	4
Prerequisites: Successful completion (C- or better) of BIOL 111 and CHEM 111 and CHEM 112 with labs	
BIOL 311 Comp. Vert. Anatomy II & Lab#	4
Prerequisites: Successful completion (C- or better) of BIOL 111 and BIOL 112 with labs and CHEM 111 and 112 with labs	
Total Credits	**15**

- **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**

Fall Courses — Fourth Year	Cr.
LNCN 300 American Citizenship*	1
MATH 270 Probability and Statistics#	3
CHEM 451 Physical Chemistry I#	4
Prerequisite: Successful completion (C- or better) of CHEM 112	
CHEM 497 Senior Science Seminar#	1
Fine Art, Humanities or Ethics*	3
Social/Behavioral Science Requirement*	3
Total Credits	**15**

- **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**

Spring Courses — First Year	Cr.
ENGL 102 Composition II*	3
LNCN 100 Lincoln's Life & Legacy*	1
BIOL 112 General Biology II & Lab*#	4
Prerequisite: Successful completion (C⁻ or better) of BIOL 111 lecture and lab	
CHEM 112 General Chemistry II & Lab#	4
Prerequisite: successful completion of CHEM 111 with a grade of C⁻ or better	
MATH 250 Calculus II#	5
Prerequisite: successful completion (C- or better) of MATH 150	
Total Credits	**17**

- **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.**

Spring Courses — Second Year	Cr.
HIST Requirement*	3
ISYS 100 Computer Literacy*	2
CHEM 222 Organic Chemistry II & Lab#	4
Prerequisite: successful completion (C- or better) of CHEM 221 with lab.	
PHYS 212 General Physics II & Lab#	4
Prerequisite: successful completion (grade of C- or better) in PHYS 211 and lab.	
BIOL 336 General Microbiology & Lab#	4
Prerequisites: Successful completion (C- or better) of BIOL 111 and BIOL 112 with labs and CHEM 111 and 112 with labs	
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.**

Spring Courses — Third Year	Cr.
CHEM 332 Quantitative & Instrumental Analysis#	3
Prerequisites: Successful completion (C- or better) of CHEM 221, CHEM 331	
COMM 200 Fund Speech & Communication*	3
BIOL 312 Comp. Vert. Anatomy II & Lab#	4
Prerequisites: Successful completion (C- or better) of BIOL 311 with lab	
CHEM 310 Math Methods in Chemistry#	4
Prerequisites: Successful completion (C- or better) of MATH 150, 250.	
Total Credits	**15**

- **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**

Spring Courses — Fourth Year	Cr.
CHEM 452 Physical Chemistry II#	4
Prerequisites: Successful Completion (C- or better) of CHEM 451	
CHEM 460 Inorganic Chemistry#	3
Prerequisites: Successful Completion (C- or better) of CHEM 111 and CHEM 112	
Fine Arts Requirement*	3
Social/Behavioral Science Requirement*	3
Free Elective	3
Total Credits	**16**

- **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

Molecular and Cell Courses (MCC) Must select *one* of the following courses	Cr.
BIOL 360 Immunology Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 and 112 with labs, Fall	3
BIOL 442 Biochemistry II Prerequisite: Successful completion (C- or better) of BIOL 441, Spring	4
BIOL 450 Molecular Cell Biology Prerequisite: Successful completion (C- or better) of BIOL 315 with lab and BIOL 441, Spring	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.**

Upper-Level Track Electives Must select at least *three* of the following courses	Cr.
AHSC 300 Medical Terminology	3
BIOL 320 Principles of Botany Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring	4
BIOL 334 General Histology Prerequisite: Successful completion (C- or better) of BIOL 310, Spring	2
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 360 Immunology Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs and CHEM 111 and 112 with labs, Fall	3
BIOL 365 General Physiology Prerequisite: Successful completion of BIOL 310 with lab, Spring	4
BIOL 370 Ecology Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Fall	4
BIOL 410 Evolution Prerequisite: Successful completion (C- or better) of BIOL 111 and 112 with labs, Spring odd years	3
BIOL 411 Advanced Human Anatomy Prerequisite: Successful completion (B- or better) of BIOL 311 and 312 with labs AND consent of instructor, Spring	4
BIOL 442 Biochemistry II Prerequisite: Successful completion (C- or better) of BIOL 441, Spring	4
BIOL 450 Molecular Cell Biology Prerequisite: Successful completion (C- or better) of BIOL 315 with lab and BIOL 441, Spring	4
BIOL 460 Developmental Biology Prerequisite: Successful completion (C- or better) of BIOL 310 with lab and BIOL 315 with lab, Spring odd years	3
BIOL 483 Research in Biology (max 3) Prerequisite: Junior standing and consent of faculty supervisor, Fall/Spring/Summer	1-3
PEXS 300 Physiology of Exercise Fall	3
PEXS 372 Kinesiology and Biomechanics Prerequisite: MATH, Spring	3
PSYC 475 Neuropsychology Prerequisite: PSYC 100, Fall	3
VHS 300 Vet Parasitology &Entomology Prerequisite: BIOL 112; Junior Standing, Fall	4
VHS 330 One Health Prerequisite: ENGL 102 and Junior Standing, Fall	3
VHS 400 Zoonotic Diseases Vet/Publ. Hlth Prerequisite: BIOL 112 and Junior Standing, Fall online	3

- **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.**

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

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. It is recommended that you track your hours in each of these categories as you progress.

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					

Professional Tracking

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

Alternative Paths: _____

_____

_____