

### Bachelor of Science in Chemistry Biochemistry (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        |
|--|-----------|
| UACT 100 Strategies for College Success <sup>a</sup> | 1         |
| BIOL 111 General Biology I & Lab <sup>ac</sup>       | 4         |
| ENGL 101 Composition I <sup>a</sup>                  | 3         |
| CHEM 111 General Chemistry I & Lab <sup>ac</sup>     | 4         |
| MATH 150 Calculus I <sup>ac</sup>                    | 4         |
| <b>Total Credits</b>                                 | <b>16</b> |

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

| Spring Courses — First Year                      | Cr        |
|--|-----------|
| LNCN 100 Lincoln's Life & Legacy <sup>a</sup>    | 1         |
| ENGL 102 Composition II <sup>a</sup>             | 3         |
| CHEM 112 General Chemistry II & Lab <sup>c</sup> | 4         |
| MATH 250 Calculus II <sup>c</sup>                | 4         |
| BIOL 112 General Biology II & Lab <sup>c</sup>   | 4         |
| <b>Total Credits</b>                             | <b>16</b> |

- Seek shadowing and /or volunteer opportunities during the summer

| Fall Courses — Second Year                      | Cr        |
|---|-----------|
| Statistics (MATH 270 or MATH 370) <sup>b</sup>  | 3         |
| BIOL 315 Molecular Genetics & Lab <sup>b</sup>  | 4         |
| CHEM 221 Organic Chemistry I & Lab <sup>b</sup> | 4         |
| PHYS 211 General Physics I & Lab <sup>b</sup>   | 4         |
| <b>Total Credits</b>                            | <b>15</b> |

- Keep track of the number of 300/400 level courses you take. You need to complete at least 36 credits for graduation
- You should be exploring opportunities to volunteer and get involved in activities on campus including leadership roles

| Spring Courses — Second Year                     | Cr        |
|--|-----------|
| COMM 200 Fund Speech & Comm <sup>a</sup>         | 3         |
| Upper-level Elective (see back) <sup>b</sup>     | 4         |
| CHEM 222 Organic Chemistry II & Lab <sup>b</sup> | 4         |
| PHYS 212 General Physics II & Lab <sup>b</sup>   | 4         |
| <b>Total Credits</b>                             | <b>15</b> |

- 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 <sup>a</sup>                                | 3         |
| Ethics elective <sup>ac</sup> (BUSN 250, PHIL 330, PHIL 430) | 3         |
| CHEM 331 Quantitative & Instr. Analysis I <sup>b</sup>       | 4         |
| CHEM 397/X JR Science Seminar/Writing <sup>b/a</sup>         | 1         |
| BIOL 441 Biochemistry I <sup>b</sup>                         | 4         |
| <b>Total Credits</b>   | <b>15</b> |

- 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        |
|---|-----------|
| BIOL 442 Biochemistry II and lab <sup>b</sup>           | 4         |
| HIST Requirement <sup>a</sup>                           | 3         |
| CHEM 332 Quantitative & Instr. Analysis II <sup>b</sup> | 4         |
| CHEM 310 Math Methods in Chemistry <sup>b</sup>         | 3         |
| Free Elective(s) – Any Course                           | 2         |
| <b>Total Credits</b>                                    | <b>16</b> |

- Explore and apply to summer internship opportunities.
- 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        |
|--|-----------|
| Ethics, Fine Arts, or Humanities <sup>a</sup>            | 3         |
| <small>Must be different prefix from ethics req.</small> |           |
| Upper-level Elective (see back) <sup>b</sup>             | 4         |
| CHEM 451 Physical Chemistry I and Lab <sup>b</sup>       | 4         |
| Behavioral/Social Sciences <sup>a</sup>                  | 3         |
| Free Elective(s) – Any Course                            | 1         |
| <b>Total Credits</b>                                     | <b>15</b> |

- 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        |
|--|-----------|
| CIVX 300 American Citizenship <sup>a</sup>           | 2         |
| BIOL 365 General Physiology & Lab <sup>b</sup>       | 4         |
| CHEM 452 Physical Chemistry II and Lab <sup>b</sup>  | 4         |
| CHEM 497/Z SR Science Seminar/Writing <sup>b/a</sup> | 1         |
| CHEM 460 Inorganic Chemistry <sup>b</sup>            | 3         |
| <b>Total Credits</b>                                 | <b>14</b> |

- 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.



College of Mathematics,  
Sciences & Health Professions

LINCOLN MEMORIAL UNIVERSITY

Bachelor of Science in Chemistry  
Biochemistry (122 Cr.)  
Four-Year Curriculum Plan

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| Upper-level Electives  |  | Cr. |
|--|--|-----|
| Select 8 total credit hours from these courses<br>If there is a corresponding lab, students must take the lab. |  |     |
| AHSC 300 Medical Terminology   |  | 3   |
| BIOL 194 Pre-Health Careers Seminar  |  | 1   |
| BIOL 310 Comparative Hum/Ver Anatomy   |  | 4   |
| BIOL 320 Principles of Botany  |  | 4   |
| BIOL 336 General Microbiology  |  | 4   |
| BIOL 380 Research Design & Analysis  |  | 3   |
| BIOL/CHEM 395 Special Topics   |  | 2-3 |
| BIOL 410 Evolution   |  | 3   |
| BIOL 450 Molecular Cell Biology  |  | 3   |
| BIOL 483 Research in Biology   |  | 1-3 |
| BIOL/CHEM 495 Special Topics   |  | 2-3 |
| CBIO 250 Soils   |  | 4   |
| CHEM 483 Research in Chemistry   |  | 1-3 |
| CHEM 498 Internship in Chemistry   |  | 1-3 |
| MATH 255 Calculus III  |  | 4   |
| MATH 260 Elementary Linear Algebra   |  | 3   |
| MATH 300 Intro to Advanced Math  |  | 3   |
| MATH 350 Differential Equations  |  | 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 <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  |                   |         |                                  |                                   |                |

| Professional Tracking              |         |     |
|------------------------------------|---------|-----|
|                                    | Average | You |
| Entrance Exam                      |         |     |
| Cumulative GPA                     |         |     |
| Science GPA                        |         |     |
| Shadowing hours                    |         |     |
| Volunteer hours                    |         |     |
| Other:                             |         |     |
| Other:                             |         |     |
| Other:                             |         |     |
| Alternative paths/Gap year options |         |     |