



Biochemistry Major – B.S. Pre-Pharmacy LECOM (4+4) concentration

First Year

<u>Fall</u>		Credits	<u>Spring</u>		Credits
CHEM 121	Chemical Principles I/Lab	4	CHEM 122	Chemical Principles I/Lab	4
MATH 121	Calculus I	3	MATH 122	Calculus II	3
BCHM 192	Freshman Biochem. Seminar	0	PHYS 121	General Physics I/Lab	4
WRIT 102	Research Writing, <u>G.E.</u>	3	CORE 113	First Year Seminar, <u>G.E.</u>	3
BIOL 110	Intro to Biology I/Lab	4	RLST 105	Francis & Glob. Iss., <u>G.E.</u>	3
ECON 101	Economics (1 of 3 Soc Sci)*, <u>G.E.</u>	3	CORE 104	Spring Comm. Enrich., <u>G.E.</u>	0
CORE 103	Fall Comm. Enrich., <u>G.E.</u>	0			17
		17			

Second Year

<u>Fall</u>			<u>Spring</u>		
CHEM 221	Organic Chemistry I/Lab	4	CHEM 222	Organic Chemistry II/Lab	4
PHYS 122	General Physics II/Lab	4	BCHM Stat	BCHM statistics/Lab	3-4
LIT XXX	Literature, <u>G.E.</u>	3	BCHM 292	Soph. Biochem. Seminar	0
BIOL 111	Intro to Biology II/Lab	4	FNAR XXX	Fine Arts, <u>G.E.</u>	3
		15	PHIL 205	Reason & Respons., <u>G.E.</u>	3
			HIST XXX	History, <u>G.E.</u>	3
					16-17

Third Year

<u>Fall</u>			<u>Spring</u>		
CHEM 321	Physical Chemistry I/Lab	4	BCHM 302	Phys. Inorg. Chem./Lab	4
BCHM 405	Biochemistry I/Lab	4	BCHM 407	Biochemistry II	3
BIOL 302	General Microbiology/Lab	4	BCHM 408	Biochemistry II Lab	2
RLST or PHIL	Ethics Course, <u>G.E.</u>	3	Soc Sci 2 nd	Social Science (2 of 3),* <u>G.E.</u>	3
Diversity	Diversity Elective, <u>G.E.</u>	3	BCHM XXX	Biochemistry Elective	3
EXAM 301	Writing Comp. Exam, <u>G.E.</u>	0			15
BCHM 392	Junior Biochem. Seminar	0			
		18			

Fourth Year

<u>Fall</u>			<u>Spring</u>		
BCHM XXX	Biochemistry Elective	3	XXX	Elective	3
LANG XXX	Language, <u>G.E.</u>	3	BIOL 301	Genetics/Lab	4
Soc Sci 3 rd	Social Science (3 of 3), <u>G.E.</u>	3	BIOL 401	Cell & Mol. Biol./Lab	4
XXX	Elective	3	BCHM Keystone Seminar		3-4
XXX	Elective	3	XXX	Elective**	3
		15			17-18

Biochemistry Statistics Electives (3 or more credits)

BIOL 315	Biostatistics/Lab	4	MATH 215	Introductory Statistics	3
CHEM 251	Quantitative Analysis/Lab	3	STAT 205	Essentials of Statistics	3

Biochemistry Keystone Seminar (3 or more credits)

CHEM 457 Chemistry and Society (3) or CORE 407 Keystone Sem., G.E. (3) and BCHM 492 Biochem Sem.(1)

Biochemistry Electives (6 or more credits; previous Biochemistry elective courses do not count)

BCHM 398/399	Biochem. Internship	3-15	BIOL 305	Immunology	3
BCHM 402	Biophysics	3	BIOL 315	Biostatistics/Lab	4
BCHM 410	Special Topics-Biochem.	3	BIOL 402	Evolution	3
BCHM 499	Undergraduate Research	1-4	CHEM 251	Quantitative Analysis/Lab	3
BCHM 501	Independent Study in Biochem.	1-8	CHEM 322	Physical Chemistry II/Lab	4
BIOL 251	Bioinformatics	3	CHEM 323	Instrumental Analysis/Lab	3
BIOL 302	Gen. Microbiology/Lab	4	CHEM 324	Inorganic Chemistry/Lab	4

*Soc Sci (1st and 2nd) requirements (6 credits)

Economics is required and

PSYCH 101 or SOC 101



American Chemical Society Certified Degree (credits may be used for Biochemistry electives)

Required courses: CHEM 121, CHEM 122, CHEM 221, CHEM 222, CHEM 251, CHEM 321, CHEM 322, CHEM 323,
CHEM 324, BCHM 405, BCHM 407, BCHM 492, and BCHM 398-399 or BCHM 499

3 additional credits: CHEM 305, CHEM 308, CHEM 401, CHEM 404, CHEM 410

Admission requirements: If students have not done so, in their second year, they must go to the LECOM portal to register their intent to apply and the year of expected admission. They must also notify the Biochemistry program director.

In their Junior year, students need to apply in January to appear before the Pre-Medicine Committee.

**if required. A minimum of 128 credits are required for graduation.

Fall 2021