

CHEMISTRY MAJOR - B.S. LECOM Pre-Dental Concentration

First Year

Fall		Credits	Spring		Credits
CHEM 121	Gen. Chem. I/Lab	4	CHEM 122	General Chemistry II/Lab	4
CHEM 192	Freshman Chem. Seminar	0	CORE 104	Spring Comm. Enrich.	0
CORE 103	Fall Comm. Enrich.	0	CORE I	Building a Foundation	3
HIST	History	3	THEO 105	Francis & Glob. Iss.	3
MATH 121	Calculus I	3	MATH 122	Calculus II	3
Soc Sci	Social Science	3	PHYS 121	General Physics I/Lab	4
WRIT 102	Research Writing	3			<u>17</u>
		<u>16</u>			

Second Year

Fall			Spring		
Apply Ln	Applied Learning	1	BIOL 111	Molec, Cells, Anim./Lab	4
BIOL 110	Evol., Ecol., Plant/Lab	4	CHEM 222	Organic Chemistry II/Lab	4
CHEM 221	Organic Chemistry I/Lab	4	CHEM 251	Quantitative Analysis/Lab	3
LIT	Literature	3	CHEM 292	Sophomore Chem. Seminar	0
PHYS 122	General Physics II/Lab	4	CORE II	Civic Responsibility	3
		<u>16</u>	PHIL	Philosophy	3
					<u>17</u>

Third Year

Fall			Spring		
BIOL	BIOL Elective**	4	BIOL	BIOL Elective**	4
CHEM 321	Physical Chemistry I/Lab	4	CHEM 322	Physical Chemistry II/Lab	4
CHEM 405	Biochemistry I/Lab	4	CHEM	CHEM Elective***	3
MATH	Mathematics Elective*	3	FNAR	Fine Arts	3
PMED 331	Junior PreMed Seminar	0	XXX	Elective	3
		<u>15</u>			<u>17</u>

Fourth Year

Fall			Spring		
CHEM 324	Inorganic Chemistry/Lab	4	CHEM 323	Instrumental Analysis/Lab	3
CHEM	CHEM Elective***	3	CHEM 457	Chem. & Society	3
XXX	Elective	3	Ethics	Ethics	3
XXX	Elective	3	LANG	Language & Culture	3
XXX	Elective	3	XXX	Elective	3
		<u>16</u>			<u>15</u>

***Mathematics Electives (3 credits from the following)**

MATH 221	Calculus III	3 or	MATH 306	Differential Equations	3
----------	--------------	------	----------	------------------------	---

****Biology Electives (8 or more credits from the following)**

BIOL 205	Anatomy & Physiology I/Lab	4	BIOL 206	Anatomy & Physiology II/Lab	4
BIOL 211	Comparative Anatomy/Lab	4	BIOL 301	Genetics/Lab	4
BIOL 302	Microbiology/Lab	4	BIOL 406	Vertebrate Physiology/Lab	4

*****Chemistry Electives (6 or more credits from the following)**

CHEM 305	Environmental Chemistry/Lab	4	CHEM 308	Forensic Chemistry	3/4
CHEM 398/399	Chemistry Internship	3-4	CHEM 401	Spectroscopy	3
CHEM 402	Biophysics	3	CHEM 404	Advanced Organic Chemistry	3
CHEM 407	Biochemistry II	3	CHEM 410	Special Topics in Chemistry	3
CHEM 499	Undergraduate Research	1-4	CHEM 501	Independent Study in Chem.	1-8

To obtain an ACS certified degree you must take the following classes: CHEM 121, 122, 192, 221, 222, 251, 292, 321, 322, 323, 324, 392, 398/399 OR 499, 405, and 6 credits of CHEM electives (305, 308, 401, 404, 407, 410, 501).

Note: Sequence of courses may be altered with advisor's approval.

Fall 2025