

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

### First Year

<b>Fall</b>		<b>Credits</b>	<b>Spring</b>		<b>Credits</b>
CHEM 121	General Chemistry I/Lab	4	CHEM 122	General Chemistry II/Lab	4
CHEM 192	Freshman Chem. Seminar	0	CORE 104	Spring Comm. Enrich., <u>G.E.</u>	0
CORE 103	Fall Comm. Enrich., <u>G.E.</u>	0	CORE 113	First Year Seminar, <u>G.E.</u>	3
HIST XXX	History, <u>G.E.</u>	3	FTAE 105	Francis & Glob. Iss., <u>G.E.</u>	3
SOC SCI 1 <sup>st</sup>	Social Science (1 of 3), <u>G.E.</u>	3	MATH 122	Calculus II	3
MATH 121	Calculus I	3	PHYS 121	General Physics I/Lab	4
WRIT 102	Research Writing, <u>G.E.</u>	3			<u>17</u>
		<u>16</u>			

### Second Year

<b>Fall</b>			<b>Spring</b>		
BIOL 110	Evol., Ecol., Plant/Lab	4	BIOL 111	Molec, Cells, Anim./Lab	4
CHEM 221	Organic Chemistry I/Lab	4	CHEM 222	Organic Chemistry II/Lab	4
LIT XXX	Literature, <u>G.E.</u>	3	CHEM 251	Quantitative Analysis/Lab	3
PHYS 122	General Physics II/Lab	4	CHEM 292	Sophomore Chem. Seminar	0
		<u>15</u>	PHIL 205	Reason and Respons., <u>G.E.</u>	3
			SOC SCI 2 <sup>nd</sup>	Social Science (2 of 3), <u>G.E.</u>	3
					<u>17</u>

### Third Year

<b>Fall</b>			<b>Spring</b>		
BIOL XXX	Pre-Professional Elective**	4	BIOL XXX	Pre-Professional Elective**	4
CHEM 321	Physical Chemistry I/Lab	4	CHEM 322	Physical Chemistry II/Lab	4
CHEM 405	Biochemistry I/Lab	4	CHEM XXX	CHEM Pre-Prof Elective***	3
EXAM 301	Writing Comp. Exam, <u>G.E.</u>	0	FNAR XXX	Fine Arts, <u>G.E.</u>	3
MATH XXX	Mathematics Elective*	3	SOC SCI 3 <sup>rd</sup>	Social Science (3 of 3), <u>G.E.</u>	3
PMED 331	Junior PreMed Seminar	0			<u>17</u>
		<u>15</u>			

### Fourth Year

<b>Fall</b>			<b>Spring</b>		
CHEM 324	Inorganic Chemistry/Lab	4	CHEM 323	Instrumental Analysis/Lab	3
CHEM XXX	CHEM Pre-Prof Elective***	3	CHEM 457	Chemistry and Society	3
Diversity	Diversity Elective, <u>G.E.</u>	3	LANG XXX	Language, <u>G.E.</u>	3
XXX	Elective	3	PHIL/FTAE	Ethics Course, <u>G.E.</u>	3
XXX	Elective	3	XXX	Elective	3
		<u>16</u>			<u>15</u>

#### \*Mathematics Electives

MATH 221	Calculus III	3 or	MATH 306	Differential Equations	3
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#### \*\*BIOL Pre-Professional Electives (8 or more credits must be taken from the following)

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

#### \*\*\*CHEM Pre-Professional Electives (6 or more credits must be taken 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.**

Revised 05/15/2023