

BACHELOR OF ARTS

CHEMISTRY



THOMAS MORE
UNIVERSITY

Approved Sample Curriculum for Pre-Pharmacy Students

The Chemistry Department offers a challenging program of study providing the student with a strong foundation in the basic areas of chemistry necessary to pursue advanced study in graduate or professional school. The Chemistry program allows the student majoring in Chemistry the opportunity to earn a bachelor's degree, other science majors to broaden the scope of their knowledge and increase their potential as scientists with a Chemistry minor, and non-science majors to satisfy the general core requirements. The department highly recommends a second major a minor in any of the following areas: Biology, Business Administration, Computer Information Systems, Criminal Justice, Economics, Mathematics, or Physics. The Chemistry Department also offers a bachelor's degree in Biochemistry and a concentration in Forensic Science.

Second Century Core: Inner core courses identified with green text, outer core possibilities identified with purple text.

-EVEN YEAR START-

First Year

Fall	CR	Spring	CR
FYE 150 First Year Exploration	1	Communication Core	3
CHE 111/111L General Chemistry I and Lab (Science + Lab – Core)	4	CHE 113/113L General Chemistry II and Lab	4
MAT 151 Calculus and Analytical Geometry I (Math Core)	4	MAT 152 Calculus and Analytical Geometry II	4
ENG 150 Literature, Writing and Research	3	Social Science – Core – ECO 105***	3
BIO 101/101L General Biology I and Lab	4	BIO 102/102L General Biology II and Lab	4
Subtotal	16		18

Second Year

Fall	CR	Spring	CR
CHE 220/220L Organic Chemistry I and Lab	4	CHE 240/240L Organic Chemistry II and Lab	4
PHY 121/121L Elements of Physics I and Lab*	4	PHY 122/122L Elements of Physics II and Lab*	4
BIO 211/211L Anatomy & Physiology I and Lab	4	BIO 206/206L Genetics and Lab	4
BIO 205 Biological Literature	3	BIO 212/212L Anatomy & Physiology II and Lab	4
		Philosophy Core #1	1
Subtotal	15	Subtotal	17

Third Year

Fall	CR	Spring	CR
CHE 301 Intro to the Chemical Literature	1	BIO 305/305L Microbiology and Lab	4
CHE 339 Biochemistry I / CHE 342L Biochemistry Lab Methods	4	MAT 205 Statistics	3
CHE 415/415L Instrumental Analysis and Lab	4	Fine Arts Core	3
History Core	3	Theology Core	3
English 200+ Core	3	Outer Core Sequence 1	3
Subtotal	15	Subtotal	16

Fourth Year

Fall	CR	Spring	CR
CHE 313/313L Physical Chemistry I and Lab	4	Chemistry Elective**	4
Chemistry Elective**	4	BIO 319/319L Cell Biology and Lab	4
Foreign Language	3	Theology Core	3
Philosophy Core #2	3	Outer Core Sequence 3	3
Outer Core Sequence 2	3		
Subtotal	17	Subtotal	14

Total Credits: 128

* The General Physics sequence (PHY 141/141L/142/142L) may be substituted for the Elements of Physics sequence. This is strongly recommended for those students interested in pursuing post-graduate studies.

** May use CHE 304, CHE 314/314L, CHE 340, CHE 358/358L, CHE 370, CHE 385/385L, CHE 411/412, CHE 425, CHE 435, or CHE 455 as Chemistry elective credit.

*** Economics course requirements vary among pharmacy schools. Please check the requirements at the schools you are applying. For example, U of L Pharmacy Graduate School requires micro- or macroeconomics.

To check pre-requisites and co-requisites, please see the catalog

***This sample curriculum is recommended but not required

Last Updated: Summer 2025

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-ODD YEAR START-

First Year

Fall	CR	Spring	CR
FYE 150 First Year Exploration	1	Communication Core	3
CHE 111/111L General Chemistry I and Lab (Science + Lab – Core)	4	CHE 113/113L General Chemistry II and Lab	4
MAT 151 Calculus and Analytical Geometry I (Math – Core)	4	MAT 152 Calculus and Analytical Geometry II	4
ENG 150 Literature, Writing and Research	3	Social Science – Core – ECO 105***	3
BIO 101/101L General Biology I and Lab	4	BIO 102/102L General Biology II and Lab	4
Subtotal			18

Second Year

Fall	CR	Spring	CR
CHE 220/220L Organic Chemistry I and Lab	4	CHE 240/240L Organic Chemistry II and Lab	4
PHY 121/121L Elements of Physics I and Lab*	4	PHY 122/122L Elements of Physics II and Lab*	4
BIO 211/211L Anatomy & Physiology I and Lab	4	BIO 206/206L Genetics and Lab	4
BIO 205 Biological Literature	3	BIO 212/212L Anatomy & Physiology II and Lab	4
		Philosophy Core #1	1
Subtotal			17

Third Year

Fall	CR	Spring	CR
CHE 301 The Chemical Literature	1	Chemistry Elective**	4
CHE 313/313L Physical Chemistry I and Lab	4	BIO 319/319L Cell Biology and Lab	4
History Core	3	MAT 205 Statistics	3
English 200+ Core	3	Theology Core	3
Fine Arts Core	3	Outer Core Sequence 1	3
Subtotal			17

Fourth Year

Fall	CR	Spring	CR
CHE 415/415L Instrumental Analysis and Lab	4	Chemistry Elective**	4
CHE 339 Biochemistry I / CHE 342L Biochemistry Lab Methods	4	BIO 305/305L Microbiology and Lab	4
Foreign Language	3	Theology Core	3
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