

# BACHELOR OF ARTS CHEMISTRY



THOMAS MORE  
UNIVERSITY

## Approved Sample Curriculum for Pre-Medical 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 or 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	BIO 102/102L General Biology II and Lab	4
BIO 101/101L General Biology I and Lab	4		

Subtotal 16

Subtotal 15

#### 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 (recommended)	4	BIO 206/206L Genetics and Lab	4
Social Science – Core – PSY 105 or SOC 105	3	English 200+ Core	3
		Philosophy Core #1	1

Subtotal 15

Subtotal 16

#### Third Year

Fall	CR	Spring	CR
CHE 301 The Chemical Literature	1	Chemistry Elective**	4
CHE 339 Biochemistry I / CHE 342L Biochemistry Lab Methods	4	Fine Arts Core	3
CHE 415/415L Instrumental Analysis and Lab	4	Theology Core	3
History Core	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3	Outer Core or Free Elective	3

Subtotal 15

Subtotal 16

#### Fourth Year

Fall	CR	Spring	CR
CHE 313/313L Physical Chemistry I and Lab	4	Chemistry Elective**	4
Foreign Language	3	Theology Core	3
Philosophy Core #2	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3		

Subtotal 16

Subtotal 13

**Total Credits: 122**

\* 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.

Note: This course pattern applies to students entering under the 2022-23 Academic Catalog and later.

Updated – 08/2023

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## CHEMISTRY



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### Approved Sample Curriculum for Pre-Medical 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.

### -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	BIO 102/102L General Biology II and Lab	4
BIO 101/101L General Biology I and Lab	4		
Subtotal			15

#### 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 (recommended)	4	BIO 206/206L Genetics and Lab	4
Social Science – Core – PSY 105 or SOC 105	3	English 200+ Core	3
		Philosophy Core #1	1
Subtotal		Subtotal	16

#### Third Year

Fall	CR	Spring	CR
CHE 301 Intro to the Chemical Literature	1	Chemistry Elective**	4
CHE 313/313L Physical Chemistry I and Lab	4	Fine Arts Core	3
CHE 339 Biochemistry I **	3	Theology Core	3
History Core	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3	Outer Core or Free Elective	3
Subtotal		Subtotal	16

#### Fourth Year

Fall	CR	Spring	CR
CHE 415/415L Instrumental Analysis and Lab	4	Chemistry Elective**	4
Foreign Language	3	Theology Core	3
Philosophy Core #2	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3	Outer Core or Free Elective	3
Outer Core or Free Elective	3		
Subtotal		Subtotal	13

**Total Credits: 121**

\* 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.

\*\* CHE 342L Biochemistry Lab Methods is also recommended. This course is offered in the fall of the fourth year.

\*\*\* May use CHE 304, CHE 314/314L, CHE 340, CHE 342L, CHE 358/358L, CHE 370, CHE 385/385L, CHE 411/412, CHE 425, CHE 435, or CHE 455 as Chemistry elective credit.

Note: This course pattern applies to students entering under the 2022-23 Academic Catalog and later.

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