

BACHELOR OF ARTS CHEMISTRY



THOMAS MORE
UNIVERSITY

Approved Sample Curriculum for students who achieved an ACT Math or ACT Composite score below 24

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 |
| ENG 150 Literature, Writing and Research | 3 | Social Science Core | 3 |
| History Core | 3 | MAT 115 Precalculus (Math Core) | 3 |
| Fine Arts Core | 3 | Outer Core or Free Elective | 3 |
| Subtotal | 14 | | 16 |

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 |
| MAT 151 Calculus and Analytical Geometry I | 4 | MAT 152 Calculus and Analytical Geometry II | 4 |
| English 200+ Core | 3 | Philosophy Core #1 | 1 |
| | | Outer Core or Free Elective | 3 |
| Subtotal | 15 | Subtotal | 16 |

Third Year

| Fall | CR | Spring | CR |
|--|-----------|-----------------------------|-----------|
| CHE 301 The Chemical Literature | 1 | Chemistry Elective** | 4 |
| CHE 415/415L Instrumental Analysis and Lab | 4 | Chemistry Elective** | 4 |
| Foreign Language | 3 | Theology Core | 3 |
| Outer Core or Free Elective | 3 | Outer Core or Free Elective | 3 |
| Outer Core or Free Elective | 3 | | |
| Subtotal | 14 | Subtotal | 14 |

Fourth Year

| Fall | CR | Spring | CR |
|---|-----------|-----------------------------|-----------|
| CHE 313/313L Physical Chemistry I and Lab | 4 | Chemistry Elective** | 4 |
| Philosophy Core #2 | 3 | Theology Core | 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 |
| Outer Core or Free Elective | 3 | Outer Core or Free Elective | 3 |
| Subtotal | 16 | Subtotal | 16 |

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.

** May use CHE 304, CHE 314/314L, CHE 339, 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.

Updated – 09/2023

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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 |
| ENG 150 Literature, Writing and Research | 3 | Social Science Core | 3 |
| History Core | 3 | MAT 115 Precalculus (Math – Core) | 3 |
| Fine Arts Core | 3 | Outer Core or Free Elective | 3 |

Subtotal

14

16

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 |
| MAT 151 Calculus and Analytical Geometry I | 4 | MAT 152 Calculus and Analytical Geometry II | 4 |
| English 200+ – Core | 3 | Philosophy Core #1 | 1 |
| | | Outer Core or Free Elective | 3 |

Subtotal

15

Subtotal

16

Third Year

| Fall | CR | Spring | CR |
|---|----|-----------------------------|----|
| CHE 301 The Chemical Literature | 1 | Chemistry Elective** | 4 |
| CHE 313/313L Physical Chemistry I and Lab | 4 | Theology Core | 3 |
| Foreign Language | 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 | Outer Core or Free Elective | 3 |

Subtotal

14

Subtotal

16

Fourth Year

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

Subtotal

16

Subtotal

14

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.

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