

Name: _____

BIOCHEMISTRY - MOLECULAR BIOLOGY, B.S.

40 courses of three or more credits and 3 one-credit PE courses

GENERAL EDUCATION CORE

BASIC REQUIREMENTS (2 courses and 3 one-credit PE courses)

- Composition and Rhetoric
- EN 103 Composition and Rhetoric I
 - EN 104 Composition and Rhetoric II
- Physical Education Courses
- PE 100
 - PE ____
 - PE ____

MODES OF THINKING (3 courses)

- Literature (Select one)
- EN 110, EN 112, EN 115
- Mathematics (**Satisfied by Major - MA 121**)
- Natural Science (**Satisfied by Major**)
- Philosophy
- PL 109
- Social Sciences (Select one)
- CJ 109, EC 209, EC 112, PO 103, PO 109, PS 109, or SO 109

CULTURAL LITERACY (6 courses)

- Humanities I and II. *Preferably* select a set (e.g., HI 201/202). However, a combination (e.g., PO 201 + HI 214) is acceptable.
- Hum. I: HI 201, PO 201, HI 213
 - Hum. II: HI 202, PO 202, HI 214, HI 262
- Humanities III: Great Works of Art & Music (See Master Schedule of Day Classes)
- ____
- Humanities IV: Great Works of Literature (See Master Schedule of Day Classes)
- ____
- Foreign Language/World Cultures (Select either two of the same language, any two WC, or one WC and one approved course with international study)
- ____
 - ____

CHRISTIAN VALUES AND THEOLOGY

(3 courses)

- Catholic Theology
- TH 109
- Intermediate Theology (200/300 level TH)
- TH ____
- Values Seminar (See Master Schedule of Day Classes)
- ____

MAJOR

(16 courses)

- CH 101: General Chemistry I
- CH 102: General Chemistry II
- CH 231: Organic Chemistry I
- CH 232: Organic Chemistry II
- CH 351: Physical Chemistry I
- BI/CH 435: Biochemistry I
- BI/CH 436: Biochemistry II
- BI/CH 455: Research Seminar
- BI 151: Introductory Biology I
- BI 255: Molecular Biology
- BI 256: Cell Biology
- BI 360: Advanced Molecular Biology
- MA 121: Calculus I
- MA 122: Calculus II
- PH 201: Gen. Phys. I: Mechanics and Heat
- PH 202: Gen. Phys. II: Wave Phenomena and Electromagnetism

Recommended Course: CH 1053 (one-credit)

MINOR:

- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> ____ | <input type="checkbox"/> ____ |
| <input type="checkbox"/> ____ | <input type="checkbox"/> ____ |
| <input type="checkbox"/> ____ | <input type="checkbox"/> ____ |

ELECTIVES

(As needed to complete 40-course req.;

Recommended electives: BI 230, BI 353)

- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> ____ | <input type="checkbox"/> ____ |
| <input type="checkbox"/> ____ | <input type="checkbox"/> ____ |
| <input type="checkbox"/> ____ | <input type="checkbox"/> ____ |
| <input type="checkbox"/> ____ | <input type="checkbox"/> ____ |
| <input type="checkbox"/> ____ | <input type="checkbox"/> ____ |

A Koefer, Director of the Academic Resource Center
Effective fall, 2019

For the most up-to-date record of progress toward completion of degree requirements, students should use the Academic Evaluation tool, which is listed under the Academic Planning heading in WebAdvisor.

DE SALES UNIVERSITY

Typical Program: BIOCHEMISTRY-MOLECULAR BIOLOGY MAJOR (B. S.)

FALL SEMESTER

SPRING SEMESTER

FIRST YEAR

General Chemistry I (CH 101)
Calculus I (MA 121)
Composition and Rhetoric I (EN 103)
General Biology I (BI 151)
Foreign Language/World Cultures

General Chemistry II (CH 102)
Calculus II (MA 122)
Composition and Rhetoric II (EN 104)
Free Elective
Foreign Language/World Cultures
Lifetime Fitness and Wellness (PE 100)

SECOND YEAR

Organic Chemistry I (CH 231)
Molecular Biology (BI 255)
Social Science MOT
Humanities 1
Catholic Theology (TH 109)
Physical Education (Activity)

... or ...

Organic Chemistry II (CH 232)
Cell Biology (BI 256)
Literature MOT
Humanities 2
Philosophy MOT (PL 109)
Physical Education (Activity)

THIRD YEAR

General Physics I (PH 201)
Biochemistry I (CH/BI 435) **or**
Physical Chemistry I (CH 351)
Humanities III
Intermediate Theology (200-300)
Free Elective

... or ...

... or ...

General Physics II (PH 202)
Biochemistry II (CH/BI 436) **or**
Advanced Molecular Biology (BI 360)
Humanities IV
Literature MOT **or** Free Elective
Research Seminar (BI/CH 455)

FOURTH YEAR

Physical Chemistry I (CH 351) **or**
Biochemistry I (CH/BI 435)
Values Seminar
Free Elective
Free Elective
Free Elective

... or ...

... or ...

Advanced Molecular Biology (BI 360) **or**
Biochemistry II (CH/BI 436)
Free Elective
Free Elective
Free Elective
Free Elective

MOT = Modes of Thought