Name:

BASED ON CREDITS

BIOCHEMISTRY - MOLECULAR BIOLOGY, B.S. 129 credits and Three 1-credit PE courses

GENERAL EDUCATION CORE	MAJOR (69 credits)
BASIC REQUIREMENTS	☐ CH 101: General Chemistry I
(6 credits and three 1-credit PE courses)	☐ CH 102: General Chemistry II
Composition and Rhetoric	☐ CH 231: Organic Chemistry I
☐ EN 103 Composition and Rhetoric I	☐ CH 232: Organic Chemistry II
☐ EN 104 Composition and Rhetoric II	☐ CH 351: Physical Chemistry I
Physical Education Courses	☐ BI/CH 435: Biochemistry I
□ PE 100	☐ BI/CH 436: Biochemistry II
\square PE	☐ BI/CH 455: Research Seminar
□ PE □ PE	☐ BI 151: Introductory Biology I
	☐ BI 255: Molecular Biology
MODES OF THINKING (9 credits)	☐ BI 257: Introduction to Bioinformatics
Literature (Select one)	☐ BI 330: Genetics
□ EN 110, EN 112, EN 115	☐ BI 360: Advanced Molecular Biology
Mathematics (Satisfied by Major)	□ MA 121: Calculus I
Natural Science (Satisfied by Major)	☐ MA 122: Calculus II
Philosophy	☐ PH 201: Gen. Phys. I: Mechanics and Heat
□ PL 109	☐ PH 202: Gen. Phys. II: Wave Phenomena and
Social Sciences (Select one)	Electromagnetism
☐ CJ 109, CM 130, EC 209, EC 112, HCM	Diotromagnetism
230, PO 103, PO 109, PS 109, or SO 109	
250,10 105,10 107,15 107, 01 50 107	FREE ELECTIVES (Minimum of 18 credits)
CULTURAL LITERACY (18 credits)	Recommended electives: Additional STEM Courses
Humanities I and II. <i>Preferably</i> select a set (e.g., HI	Recommended electives. Additional STEM Courses
201/202). However, a combination (e.g., PO 201 +	
HI 214) is acceptable.	ODTIONAL MINOD
☐ Hum. I: HI 201, PO 201, HI 213	OPTIONAL MINOR
☐ Hum. II: HI 202, PO 202, HI 214, HI 262	<u> </u>
Humanities III: Great Works of Art & Music	
Trainanties III. Great works of Art & Wasie	
Humanities IV: Great Works of Literature	
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	
(9 credits)	
Catholic Theology	
□ TH 109	
Intermediate Theology (200/300 level TH)	
☐ TH	
Values Seminar	
	

DE SALES UNIVERSITY Example Plan: BIOCHEMISTRY-MOLECULAR BIOLOGY MAJOR (B. S.)

FIRST YEAR

FALL SEMESTER (15 credits and 1-credit PE)

General Chemistry I (CH 101+101L+101P)

Calculus I (MA 121)

Composition and Rhetoric I (EN 103) General Biology I (BI 151+151L)

Lifetime Fitness and Wellness (PE 100)

General Chemistry II (CH 102+102L+102P)

Calculus II (MA 122)

Composition and Rhetoric II (EN 104)

SPRING SEMESTER (17 credits)

Philosophy MOT (PL 109)

Free Elective

SECOND YEAR

FALL SEMESTER (17 to 19 credits)

Organic Chemistry I (CH 231+231L)

Molecular Biology (BI 255+255L)

Humanities I

Foreign Language/World Cultures I *Odd Years:* Gen Phys. I. (PH-201+201L)

Even Years: Social Science MOT

SPRING SEMESTER (15 to 17 credits and 1-Credit PE)

Organic Chemistry II (CH 232+232L)

Humanities II

Foreign Language/World Cultures II

Physical Education (Activity)

Even Years: Gen Phys. II (PH-202+202L)

Odd Years: Genetics (BI 330+330L)

Odd Years: Free Elective

THIRD YEAR

FALL SEMESTER (15 credits and 1-credit PE)

Biochemistry I (CH/BI 435+435L) Catholic Theology (TH 109) Physical Education (Activity)

Odd Years: Gen. Phys. I (PH 201+201L) *Odd Years:* Research Seminar (CH-455)

Even Years: Intro to Bioinformatics (BI 257)
Even Years: Physical Chemistry I (CH 351+351L)

SPRING SEMESTER (16-17 credits)

Biochemistry II (CH/BI 436+436L) Intermediate Theology (200-300)

Even Years: Gen Phys. II (PH-202+202L)

Even Years: Adv. Molecular. Biology (BI 360+360L)

Odd Years: Genetics (BI 330+330L)

Odd Years: Free Elective *Odd Years:* Free Elective

FOURTH YEAR

FALL SEMESTER (15 to 17 credits)

Humanities III Literature MOT Free Elective

Odd Years: Social Science MOT

Odd Years: Research Seminar (CH-455) *Even Years:* Physical Chemistry I (CH 351+351L)

Even Years: Intro to Bioinformatics (BI 257)

SPRING SEMESTER (15 to 16 credits)

Humanities IV Values Seminar Free Elective Free Elective

Even Years: Adv. Molecular. Biology (BI 360+360L)

Odd Years: Free Elective

Note: Odd/Even designation refers to the calendar year for the semester the course is being taken by the student.

Odd Years are FA23, FA25, FA27, SP23, SP25, SP27 etc. Even Years are FA22, FA24, FA26, SP24, SP26, SP28 etc.

A. Koefer, Director of the Academic Success Center Effective fall, 2022