

# B.S. – BIOCHEMISTRY/MOLECULAR BIOLOGY

## Core Course Requirements: 80 credits

A grade of “C” or higher must be earned in all core courses listed below

- MATH 2215 Calculus I (5)
- BIOL 1200/05 Cells & Molecules (5)
- BIOL 1400/5 Biodiversity & Evolution (5)
- BIOL 2110/15 Genetics w/lab (5)
- CHEM 2110/15 General Chemistry w/lab (5)
- CHEM 2120/25 Chemistry II Organic w/lab (5)
- CHEM 2130 Chemistry III Organic Reactions (4)
- CHEM 2140 Theory and Application (4)
- CHEM 3250 Biochemistry (4)
- CHEM 3350 Biochemical Lab Methods (4)
- PHYS 2110/15 or PHYS 2220/25 (5 - 6)
- PHYS 2120/25 or PHYS 2230/35 (5 - 6)
- BCMB/BIOL/CHEM 4800/4900 Senior Project/ Internship (4)

### GROUP I Molecular

Choose ONE course from:

- BIOL 4210 Molecular Genetics (4)
- BIOL 4211 Molecular Evolution (4)
- BIOL 4212 Molecular Microbiology (4)
- BIOL 4213 Eukaryotic Molecular Biology (4)
- BIOL 4215 Biotechnology (4)

### GROUP II Chemistry Electives

Choose TWO courses from the following (4 credits):

- CHEM 3035 Survey of Instrumentation<sup>1</sup>
- CHEM 3110 Inorganic Chemistry
- CHEM 3310 Lab Methods I<sup>1</sup>
- CHEM 3320 Lab Methods II<sup>1</sup>
- CHEM 3410 Physical Chemistry I
- CHEM 3420 Physical Chemistry II
- CHEM 3430 Physical Organic Chemistry
- CHEM 3520 Advanced Organic Chemistry
- CHEM 3530 Environmental Chemistry
- CHEM 3550 Advanced Biochemistry

<sup>1</sup>Students cannot take both CHEM 3035 & 3310/3320

### GROUP III Biology Electives

Choose TWO courses from the following (4 credits)

BIOL 3160, 3170, 3180, 3190, 3360, 4200, 4210, 4213, 4215, 4236, 4321, 3141, 3435, 4186, 4211, and 4212.

BIOL \_\_\_\_\_ BIOL \_\_\_\_\_

### Other Cognates if needed to equal program total of 80 credits

- Cognate \_\_\_\_\_
- Cognate \_\_\_\_\_
- Cognate \_\_\_\_\_
- Cognate \_\_\_\_\_
- Cognate \_\_\_\_\_

## Quantitative Reasoning Requirements (3 courses)

Two Q1 courses may be in transfer. Q2 courses must be taken at Stockton

Q1 \_\_\_\_\_ Q2 \_\_\_\_\_ Q1 or Q2 \_\_\_\_\_



## General Studies Requirements: 48 credits Total

32 Credits in 'G' Category Courses

No more than 12 credits in any one “G” category may be applied towards the BS degree

- General Interdisciplinary (GEN) – up to 4 credits
- General Integration & Synthesis (GIS) – up to 4 credits\*
- General Arts and Humanities (GAH) – up to 8 credits
- General Natural Science & Math (GNM) – up to 8 credits
- General Social Science (GSS) – up to 8 credits

\*Must be taken junior or senior year

## At Some Distance Electives: 16 credits

Courses unrelated to your major

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## General Studies Outcome Requirement

These courses are listed as attributes and should be completed within the 128 credits needs to graduate.

- Arts (A)  Historical Consciousness (H)
- Values/Ethics (V)  International/Multicultural (I)

## Writing Requirement (4 courses)

Two W1 courses may be in transfer. W2 courses must be taken at Stockton

W1 \_\_\_\_\_ W1/W2 \_\_\_\_\_

W1/W2 \_\_\_\_\_

W1/W2–3000 level \_\_\_\_\_

“The student is responsible for insuring that all graduation requirements are met” (Bulletin). Consult with your preceptor and/or the Center for Academic Advising on a regular basis. Prerequisites must be met. Please consult the Catalog of Courses for information.