

# BIOCHEMISTRY MAJOR

## American Chemical Society Approved Concentration

This worksheet is a guide to supplement your degree audit in Degree Works. All students need 32 FSU course-credits to graduate. For students who change majors or enter FSU with transfer credits your degree audit may appear differently, as previous coursework could fulfill Domains and Free Electives. Please see your Advisor and/or The Advising Center with any questions.

### DOMAIN GENERAL EDUCATION (11 Courses Required):

The FSU General Education program consists of 11 requirements. In the Biochemistry major Domain II-B is partially satisfied through completion of the major (X). Two (2) additional subdomains are met by specific courses in the major (see below), leaving ***eight (8) courses to be completed*** to satisfy the remaining General Education subdomains through courses taken outside the major department. Only courses designated (Gen. Ed. Domain) after the course title will meet General Education requirements. Please refer to the catalog (p. 269) for full information.

#### Common Core

- \_\_\_\_\_ A. ENWR 110 Composition II
- \_\_\_\_\_ B. MATH/STAT XXX (credit-bearing): MATH 219\*

#### Domain I

- \_\_\_\_\_ A. Creative Arts: \_\_\_\_\_
- \_\_\_\_\_ B. Humanities: \_\_\_\_\_
- \_\_\_\_\_ C. Language: \_\_\_\_\_

#### Domain II

- \_\_\_\_\_ A. Analysis, Modeling, Problem-Solving: MATH 220\*
- \_\_\_\_\_ B. Natural Sciences (2): Non-Lab Science: \_\_\_\_\_
- \_\_\_\_\_ X \_\_\_\_\_ Lab Science

#### Domain III

- \_\_\_\_\_ A. Perspectives on the Past: \_\_\_\_\_
- \_\_\_\_\_ B. Perspectives on Contemporary World: \_\_\_\_\_
- \_\_\_\_\_ C. Global Competency, Ethical Reasoning,  
and/or Human Diversity: \_\_\_\_\_

X = Fulfilled through completion of major

\* = Required course in the major

### MAJOR COURSES (19 courses, 22.50-22.75 credits):

#### Required Major Related Core Courses (15 courses 18.25 credits):

|       |                         |  |
|-------|-------------------------|--|
| _____ | BIOL 130/130L           | Principles of Biology with Lab                           |
| _____ | <u>or</u> BIOL 135/135L | Foundations of Biological Science with Lab               |
| _____ | CHEM 107/107L           | Principles of Chemistry with Lab                         |
| _____ | CHEM 108/108L           | Principles of Chemistry & Quantitative Analysis with Lab |
| _____ | CHEM 207/207L           | Organic Chemistry I with Lab                             |
| _____ | CHEM 208/208L           | Organic Chemistry II with Lab                            |
| _____ | CHEM 301/301L           | Biochemistry I with Lab                                  |
| _____ | CHEM 303/303L           | Physical Chemistry I with Lab                            |
| _____ | CHEM 321/321L           | Instrumental Analysis with Lab                           |
| _____ | CHEM 332/332L           | Biochemistry II with Lab                                 |
| _____ | MATH 219                | Calculus I (CC-B) **                                     |
| _____ | MATH 220                | Calculus II (II-A) **                                    |
| _____ | PHYS 211/211L           | Principles of Physics I with Lab                         |
| _____ | PHYS 212/212L           | Principles of Physics II with Lab                        |

\*\* *Fulfills a General Education requirement.*

#### Choose two (2) courses from the following:

|       |               |                            |
|-------|---------------|----------------------------|
| _____ | BIOL 208/208L | Genetics with Lab          |
| _____ | BIOL 260/260L | Cell Biology with Lab      |
| _____ | BIOL 262/262L | Molecular Biology with Lab |

### American Chemical Society Approved Concentration Courses (4 courses, 4.25-4.50 credits):

#### Required Courses (3):

|       |               |                              |
|-------|---------------|------------------------------|
| _____ | CHEM 401/401L | Inorganic Chemistry with Lab |
| _____ | CHEM 480      | Chemical Research I          |
| _____ | CHEM 481      | Chemical Research II         |

#### Choose one (1) elective from:

|       |                         |                                |
|-------|-------------------------|--------------------------------|
| _____ | BIOL 208/208L           | Genetics with Lab*             |
| _____ | <u>or</u> BIOL 260/260L | Cell Biology with Lab*         |
| _____ | <u>or</u> BIOL 262/262L | Molecular Biology with Lab*    |
| _____ | CHEM 304/304L           | Physical Chemistry II with Lab |
| _____ | CHEM 390                | Special Topics in Chemistry    |
| _____ | FDSC 405/405L           | Food Analysis with Lab         |
| _____ | FDSC 408/408L           | Food Chemistry with Lab        |

*\*Note: BIOL 208/208L Genetic with Lab, BIOL 260/260L Cell Biology with Lab and BIOL 262/262L Molecular Biology with Lab cannot be used as both a major core requirement and concentration elective.*

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**FREE ELECTIVES (1-2):**

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