

# BACHELOR OF ARTS DEGREE IN MOLECULAR AND CELLULAR BIOLOGY

NAME \_\_\_\_\_

SID # \_\_\_\_\_

CATALOG YEAR 2024-2025

EXPECTED GRADUATION DATE \_\_\_\_\_

## GENERAL EDUCATION REQUIREMENTS (29 Unit Minimum)

### English Composition

ENGL 101, 101A or 107 ..... 3 \_\_\_\_

ENGL 102 or 108..... 3 \_\_\_\_

Or

ENGL 109H ..... 3 \_\_\_\_

### Foundation Mathematics

MATH 112, 113, 116, 163, 119A, 120R, 122B, 125, 263 or ISTA 116, SBS 200.....3-5 \_\_\_\_

### Second Language

4<sup>th</sup> semester proficiency by credit or exam required ..... \_\_\_\_

### Intro. to General Education

UNIV 101 ..... 1 \_\_\_\_

### Exploring Perspectives (4 courses, 12 units)

Artist ..... 3 \_\_\_\_

Humanist..... 3 \_\_\_\_

Social Scientist..... 3 \_\_\_\_

Natural Scientist ....Requirement satisfied by MCB foundations

### Building Connections (3 courses, 9 units)

Course One..... 3 \_\_\_\_

Course Two ..... 3 \_\_\_\_

Course Three..... 3 \_\_\_\_

### General Education Capstone

UNIV 301 ..... 1 \_\_\_\_

## MCB FOUNDATION COURSES (14 Units)

### Chemistry (General Chemistry with labs, Organic Chemistry I Lecture)

CHEM 141/143 OR 151 OR 161/163 OR 181 .....4 \_\_\_\_

CHEM 142/144 OR 152 OR 162/164 OR 182 .....4 \_\_\_\_

CHEM 241A OR 246A.....3 \_\_\_\_

### Mathematics (Statistics)

MATH 163 or 263 (F, S, SS) .....3 \_\_\_\_

## MCB MAJOR (37 Unit Minimum)

### Core Requirements (25 unit minimum)

#### Introductory Biology

MCB 181R - Introductory Biology I (F, S, SS)..... 3 \_\_\_\_

MCB 181L - Introductory Biology I Lab (F, S, SS)..... 1 \_\_\_\_

ECOL 182R - Introductory Biology II (F, S, SS)..... 3 \_\_\_\_

ECOL 182L - Introductory Biology II Lab (F, S, SS)..... 1 \_\_\_\_

#### Technical Writing

ENGL 308 OR ENGL 313 (F, S, SS) .....3 \_\_\_\_

#### Genetics

MCB 304 (F) OR ECOL 320 (F, S) .....4 \_\_\_\_

#### Cell Biology

MCB 305 (S) OR MCB 410 (F, S, SS) .....3-4 \_\_\_\_

#### Molecular Biology

MCB 301 (F) OR MCB 411 ( S, SS) .....3-4 \_\_\_\_

#### Bioethics

MCB 404 (F, S, SS) .....3 \_\_\_\_

#### Senior Capstone

MCB 498 (F, S, SS) .....1 \_\_\_\_

### Upper Division Electives (9 unit minimum)

#### Choose three of the following courses (9 units):

MCB 325 Biology of Cancer (F)..... 3 \_\_\_\_

MCB 422 Problem Solving with Genetic Tools (F, SS)..... 3 \_\_\_\_

MCB 425 Cancer Discoveries (S)..... 3 \_\_\_\_

MCB 482 Modeling Human Disease (F)..... 3 \_\_\_\_

MCB 442 Human Genetics: Sex, Crime and Disease (S) .... 3 \_\_\_\_

MCB 447 Big Data in Biology and Medicine (F) ..... 3 \_\_\_\_

BIOC 385 Metabolic Biochemistry (F, S, SS) ..... 3 \_\_\_\_

ECOL 326 Genomics (F, SS)..... 3 \_\_\_\_

PSIO 380 Fundamentals of Human Physiology (F, S) ..... 3 \_\_\_\_

### UNIVERSITY REQUIREMENTS:

120 total units  42 upper division units  2.000+ cum GP  2.000+ major GPA

MCWA complete\_\_30+ total units at UA\_\_\_\_18+ MCB units at UA \_\_\_\_

