

BACHELOR OF ARTS DEGREE IN MOLECULAR AND CELLULAR BIOLOGY

NAME _____

SID # _____

CATALOG YEAR 2025-2026

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

4th 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 ScientistRequirement 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 161/1634 ____

CHEM 142/144 OR 152 OR 162/1644 ____

CHEM 241A.....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 (S)..... 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 ____