MINOR PROGRAM IN MOLECULAR BIOLOGY

REQUIRED COURSES:

BC401, Comprehensive Biochemistry I [3 cr]
BC403, Comprehensive Biochemistry II [3 cr]
BC404, Comprehensive Biochemistry Lab [2 cr]
BC463, Molecular Genetics [3 cr] OR MIP450, Microbial Genetics [3 cr]
BC493, Seminar [1 cr]
CHEM111, General Chemistry I [4 cr]
CHEM112, General Chemistry I Laboratory [1 cr]
CHEM113, General Chemistry II [3 cr]
CHEM114, General Chemistry II Laboratory [1 cr]
CHEM341, Organic Chemistry I [3 cr]
CHEM343, Organic Chemistry II [3 cr]
CHEM344, Organic Chemistry Lab [2 cr]
LIFE102, Attributes of Living Systems [4 cr]
LIFE201B, 203, Intro Genetics/Lab/Rec [5 cr]; LIFE210, 212 Eukaryotic Cell Biology/Lab/Rec, [5 cr] OR
BZ310, Cell Biology [4 cr] and either SOCR330/331, Principles of Genetics/Lab [4 cr] or BZ350,
Molecular and General Genetics [4 cr]
MATH155, Calculus for Biological Scientists I [4 cr] OR MATH160, Calculus for Physical Scientists I [4 cr]
MIP300, General Microbiology [3 cr]
MIP342, Immunology [4 cr]
PH121/122, General Physics I/II [10 cr] OR PH141/142, Physics for Scientists and Engineers I/II [10 cr]

COURSE ELECTIVES (MINIMUM OF ONE COURSE):

BC465, Molecular Regulation of Cell Function [3 cr]
BZ346, Population & Evolutionary Genetics [3 cr]
BZ402, Molecular Cytogenics [4 cr]
BZ403, Comparative Endocrinology [3 cr]
BZ433, Behavioral Genetics [3 cr]
MIP420, Medical and Molecular Virology [4 cr]
MIP443, Microbial Physiology [4 cr]

LAB ELECTIVES (MINIMUM OF 4 CREDITS):

BC475, Mentored Research [3 cr]
BC495, Independent Study [var. cr]
BC499A, Thesis—Lab Research Based [3 cr]
BC499B, Thesis—Literature Based [3 cr]
BZ495, Independent Study [var. cr]
MIP302, General Microbiology Lab [2 cr]
MIP343, Immunology Lab [2 cr]
MIP425, Virology and Cell Culture Lab [2 cr]
MIP495, Independent Study [var. cr]