

**WESTERN NEW MEXICO UNIVERSITY**  
**Degree Plan - Cell & Molecular Biology Major (0406)**  
**Department of Natural Sciences**

Student Name: \_\_\_\_\_ ID #: \_\_\_\_\_ Tel #: \_\_\_\_\_ Degree Type  
 Address: \_\_\_\_\_ Email: \_\_\_\_\_ ☐ BS  
 Catalog Authority: 2020-21 Expected Completion: \_\_\_\_\_ Adviso \_\_\_\_\_ ☐ BA

**Deadline for Application for Graduation; June 1st for Fall; September 1st for Spring; February 1st for Summer.**

**GENERAL EDUCATION REQUIREMENTS (31)**

**AA or AS earned within New Mexico: YES \_\_\_\_\_ NO \_\_\_\_\_ If earned, then General Education is complete.**

Course(Credits)	Sem/Year	Grade	Course(Credits)	Sem/Year	Grade
-----------------	----------	-------	-----------------	----------	-------

**Applied Liberal Arts and Sciences (9)**

ALAS 1810 Humanities (3) \_\_\_\_\_

ALAS 1820 Social/ Behav Sci. (3) \_\_\_\_\_

**Area I - Communications (6)** <sup>1</sup> ENGL 1110 Pre-requisite/Co-req

ENGL 1120 Composition II <sup>1</sup> (3) \_\_\_\_\_

COMM 1130 Public Speaking \_\_\_\_\_

COMM 1140 Intro to Media Writing \_\_\_\_\_

COMM 2140 Small Group Communication \_\_\_\_\_

Course: \_\_\_\_\_ (3) \_\_\_\_\_

**Area II - Mathematics (3-5)** <sup>2</sup> BCIS 1110 is Pre-requisite/Co-req

MATH 1010 Mathematics for School Teachers \_\_\_\_\_

MATH 1130 Survey of Mathematics <sup>2</sup> \_\_\_\_\_

MATH 1220 College Algebra <sup>2</sup> \_\_\_\_\_

MATH 1350 Intro to Statistics <sup>2</sup> \_\_\_\_\_

MATH 1510 Calculus I <sup>2</sup> \_\_\_\_\_

Course: \_\_\_\_\_ ( ) \_\_\_\_\_

**Area III - Science (4)**

Pick **one** course (plus lab) from the following:

BIOL 1110/1110L General Biology & Lab \_\_\_\_\_

BIOL 1140/1140L5 Biology for Health Sciences & Lab \_\_\_\_\_

BIOL 2110/2110L Principles of Biology: Cell/Molecular & Lab \_\_\_\_\_

BIOL 2210/2210L Human Anatomy & Physiology I & Lab \_\_\_\_\_

BIOL 2642/2642L Plant Form, Function and Diversity & Lab \_\_\_\_\_

BIOL 2644/2644L Animal Form, Function and Diversity & Lab \_\_\_\_\_

CHEM 1120/1120L Intro to Chemistry & Lab \_\_\_\_\_

CHEM 1215/1215L General Chemistry I for STEM Majors & Lab \_\_\_\_\_

GEOL 1110/1110L Physical Geology & Lab \_\_\_\_\_

GEOL 1120/1120L Environmental Geology & Lab \_\_\_\_\_

GEOL 2110/2110L Historical Geology & Lab \_\_\_\_\_

PHSC 1120/1120L Forensic Science I & Lab \_\_\_\_\_

Course: \_\_\_\_\_ (4) \_\_\_\_\_

**BS Requirement (6)**

MATH 1350 Intro to Statistics, plus one CMPS course beyond Gen'l. Ed **or** GISS/GEOG 361/363 Intro to GIS \_\_\_\_\_

MATH 1350 Intro to Statistics (3) \_\_\_\_\_

Course: \_\_\_\_\_ ( ) \_\_\_\_\_

**OR**

**BA Requirement (minimum of 3)**

Complete any upper division Spanish course, or one of the following: SPAN 2120, 303, BLED 431 \_\_\_\_\_

**or** CLEP for four semesters of Spanish \_\_\_\_\_

Course: \_\_\_\_\_ (3) \_\_\_\_\_

**Area IV - Social and Behavioral Sciences (3)**

ANTH 1140 Intro to Cultural Anthropology \_\_\_\_\_

ECON 1110 Survey of Economics \_\_\_\_\_

ECON 2110 Macroeconomic Principles \_\_\_\_\_

ECON 2120 Microeconomic Principles \_\_\_\_\_

GEOG 1120 World Regional Geography \_\_\_\_\_

GEOG 1130 Human Geography \_\_\_\_\_

POLS 1110 Intro to Political Science \_\_\_\_\_

POLS 1120 American National Government \_\_\_\_\_

PSYC 1110 Intro to Psychology \_\_\_\_\_

SOCI 1110 Intro to Sociology \_\_\_\_\_

SOCI 2310 Contemporary Social Problems \_\_\_\_\_

Course: \_\_\_\_\_ (3) \_\_\_\_\_

**Area V - Humanities (3)**

ENGL 1410 Intro to Literature \_\_\_\_\_

ENGL 2310 Intro to Creative Writing \_\_\_\_\_

HIST 1110 United States History I \_\_\_\_\_

HIST 1120 United States History II \_\_\_\_\_

HIST 1150 Western Civilization I \_\_\_\_\_

HIST 1160 Western Civilization II \_\_\_\_\_

PHIL 1115 Intro to Philosophy \_\_\_\_\_

Course: \_\_\_\_\_ (3) \_\_\_\_\_

**Area VI - Creative & Fine Arts (3-4)**

ARTS 1250 Design II \_\_\_\_\_

ARTS 1410 Intro to Photography \_\_\_\_\_

ARTS 1610 Drawing I \_\_\_\_\_

ARTS 1630 Painting I \_\_\_\_\_

ARTS 2321 Appreciation of Clay \_\_\_\_\_

ARTS 2841 Appreciation of Sculpture \_\_\_\_\_

MUSC 1130 Music Appreciation \_\_\_\_\_

Course: \_\_\_\_\_ ( ) \_\_\_\_\_

## Degree Plan - Cell & Molecular Biology Major

### SUPPORTING COURSEWORK (8 credit hours)

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
CHEM 1215/1215L Gen Chem I* (4)	_____	_____	CHEM 1225/1225L Gen Chem II* (4)	_____	_____
Chemistry 1215 and 1225 are required unless incl. in minor					

### LIFE SCIENCE CORE REQUIREMENTS (23 credit hours)

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
BIOL 2642/2642L Plant FFD* (4)	_____	_____	BIOL 301/303 Ecology (4)	_____	_____
BIOL 2644/2644L Animal FFD* (4)	_____	_____	BIOL 366/368 Genetics (4)	_____	_____
BIOL 2110/2110L Princ Biol: Cell (4)	_____	_____	BIOL 422 Evolution (3)	_____	_____

\*May count as General Education Lab Science.

### CELL & MOLECULAR BIOLOGY MAJOR REQUIREMENTS (31 credit hours)

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
BIOL 360/362 Cell Biology (4)	_____	_____	BIOL 476/478 Immunology (4)	_____	_____
BIOL 460 Cell Physiology (3)	_____	_____	BIOL 483 Intro to Senior Project (2)	_____	_____
BIOL 465/467 Molecu Gen Genetics (4)	_____	_____	BIOL 486 Senior Project (1)	_____	_____
BIOL 471/473 Mjrs Microbiology (4)	_____	_____	<b>6 credits of advisor approved BIOL Upper Division guided electives</b>		
BIOL 474 Virology (3)	_____	_____	Course: _____ ( )	_____	_____
			Course: _____ ( )	_____	_____
			Course: _____ ( )	_____	_____

### MINOR DEGREE COURSES

(Botany or Zoology or a minor outside the Biology discipline)

Minor: \_\_\_\_\_  
(attach degree plan worksheet for your minor, with course details)

Number of Credits: \_\_\_\_\_

### ADDITIONAL COURSES (to fulfill the 120 hour requirement)

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
Course: _____ ( )	_____	_____	Course: _____ ( )	_____	_____
Course: _____ ( )	_____	_____	Course: _____ ( )	_____	_____
Course: _____ ( )	_____	_____	Course: _____ ( )	_____	_____
Course: _____ ( )	_____	_____	Course: _____ ( )	_____	_____
Course: _____ ( )	_____	_____	Course: _____ ( )	_____	_____

Service Learning 3 credits: \_\_\_\_\_ Sem/Year: \_\_\_\_\_ Grade: \_\_\_\_\_

Upper Division Hours (42 minimum): \_\_\_\_\_ Writing Intensive Hours (9 minimum): \_\_\_\_\_

Total Hours - 120 credits required: \_\_\_\_\_ Copy to Registrar: \_\_\_\_\_ date: \_\_\_\_\_

Original completed on (date): \_\_\_\_\_ Grad. Audit sent: \_\_\_\_\_ date: \_\_\_\_\_

Updated: \_\_\_\_\_

Student Signature: \_\_\_\_\_ date: \_\_\_\_\_

Advisor Signature: \_\_\_\_\_ date: \_\_\_\_\_