

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

Student Name: \_\_\_\_\_ ID #: \_\_\_\_\_ Tel #: \_\_\_\_\_ Degree Type  
 Address: \_\_\_\_\_ Email: \_\_\_\_\_ ☐ BS  
 (complete - incl street, city, state, zip) \_\_\_\_\_ ☐ BA

Catalog Authority: 2018-19 Expected Completion: \_\_\_\_\_ Advisor: \_\_\_\_\_

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

**GENERAL EDUCATION REQUIREMENTS (41)\***

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
<b>Area I - Oral Communications (3)</b>			<b>Area V - Humanities and Fine Arts (9-12) **</b>		
Pick one of the following: COMM 110, THR 250			Pick 3-4 courses from at least 3 separate categories below:		
Course: _____ (3) _____			<b>1) History</b>	HIST 111, 112, 201, 202	
or Transfer: TGE (COMM 175)			Course: _____ (3) _____		
			Course: _____ (3) _____		
			or Transfer: TGE (HIST 175)		
<b>Area I - Written Communications (6)</b>			<b>2) Literature</b>	ENGL 150, 200, 205, 225, 265	
ENGL 101 Comp & Rhetoric I (3) _____				ENGL 293, 296; LALS 243	
ENGL 102 Comp & Rhetoric II (3) _____			Course: _____ (3) _____		
or Transfer: TGE (ENGL 175) for ENGL 102 only			Course: _____ (3) _____		
			or Transfer: TGE (ENGL 275)		
<b>Area II - Mathematics (3)</b>			<b>3) Aesthetics (Art, Music, Theater)</b>		
MATH 105, 106, 107, 121, 131, 132 or 171			ART 103, 210, 211, 241, 261; MUSC 111, 119; THR 110, 136, 211		
Course: _____ ( ) _____			Course: _____ ( ) _____		
or Transfer: TGE (MATH 175)			Course: _____ ( ) _____		
			or Transfer: TGE (ART 175, MUSC 175, THR 175, HUM 175)		
<b>Area III - Laboratory Science (8)</b> (see page 2)			<b>4) Philosophy</b>	PHIL 100, 101, 200	
Pick two courses (plus labs) from the following:			Course: _____ (3) _____		
BIOL 101, 102, 202, 204, 206, CHEM 121, 151, 152			Course: _____ (3) _____		
BIOL 212, 254, 255 PHSC 101, 115, 171			or Transfer: TGE (PHIL 175)		
GEOL 101, 102, 201 PHYS 151, 152, 171, 172					
Course: _____ (4) _____			<hr/>		
Course: _____ (4) _____			<b>Technology Literacy (3)</b>		
or TGE (BIOL 175, CHEM 175, GEOL 175, PHSC 175, PHYS 175)			CMPS 110, CMPS 111, ART 104, or take a challenge exam.		
			Course: _____ (3) _____		
			or Transfer: TGE (CMPS 175)		
<b>Area IV - Social and Behavioral Sciences (6-9) **</b>			<hr/>		
Pick 2-3 courses from different groups of the following:			* Includes 35 hours of the NM Common Core		
1) ANTH 201, 202, 212/214; GEOG 201, 202, 205			plus 6 additional WNMU hours		
2) ECON 200, 201, 202 3) POLS 201, 202			** The total credits from Area IV and Area V		
4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101			must be 18 hours.		
Course: _____ (3) _____			Note: TGE = Transferred General Education courses		
Course: _____ (3) _____			listed by HED or other transfer agreements,		
Course: _____ (3) _____			but with no WNMU equivalent		
or Transfer TGE (ANTH 175, ECON 175, GEOG 175, POLS 175,					
PSY 175, SOC 175)					

**BS Requirement (6)**

MATH 321 Statistics, plus one CMPS course beyond Gen'l. Ed  
or GISS/GEOG 361/363 Intro to GIS

MATH 321 Statistics (3) \_\_\_\_\_  
 Course: \_\_\_\_\_ ( ) \_\_\_\_\_

**OR**

**BA Requirement (minimum of 3)**

Complete any upper division Spanish course, or one of the  
 following: SPAN 202, BLED 431 or CLEP for four semesters  
 of Spanish.

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

## 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 151/153 Gen Chem I* (4)	_____	_____	CHEM 152/154 Gen Chem II* (4)	_____	_____
Chemistry 151 and 152 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 202/203 Mjr I: Plant FFD* (4)	_____	_____	BIOL 301/303 Ecology (4)	_____	_____
BIOL 204/205 Mjr II: Animal FFD* (4)	_____	_____	BIOL 366/368 Genetics (4)	_____	_____
BIOL 206/207 Mjr III: Cell Biology* (4)	_____	_____	BIOL 422 Evolution (3)	_____	_____

\*May count as General Education Lab Science.

### CELL & MOLECULAR BIOLOGY MAJOR REQUIREMENTS (30 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 486 Senior Project (2)	_____	_____
BIOL 465/467 Molecular Genetics (4)	_____	_____	<b>6 credits of advisor approved BIOL Upper Division guided electives</b>		
BIOL 471/473 Mjrs Microbiology (4)	_____	_____	Course: _____ ( )	_____	_____
BIOL 474 Virology (3)	_____	_____	Course: _____ ( )	_____	_____
			Course: _____ ( )	_____	_____

### MINOR DEGREE COURSES

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

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

### 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 minimum required): \_\_\_\_\_ Copy to Registrar: \_\_\_\_\_ date: \_\_\_\_\_

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

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

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

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