## WESTERN NEW MEXICO UNIVERSITY

## Degree Plan - Cell & Molecular Biology Major (0406) Department of Natural Sciences

Course:	Student Name:	ID #:	Tel #:	Degree Type			
Catalog Authority: 2017-18   Expected Completion:   Advisor:	Address:		Email:	□ BS			
Cause   Caus	(complete - incl street, city, state,	zip)		BA			
Course Credity   Sem/Year   Grade   Area I - Oral Communications (3)	Catalog Authority: 2017-18	Expected Completion:	Advisor:				
Course Credity   Sem/Year   Grade   Area I - Oral Communications (3)		GENERAL EDUCATION	REQUIREMENTS (41)*				
Pick one of the following: COMM 110, THR 250   (3)	Course(Credits)			Sem/Year Grade			
Course: (3)	Area I - Oral Communication	ns (3)	Area V - Humanities and Fine Art	ts (9-12) **			
Course:	Pick one of the following: COM	IM 110, THR 250	Pick 3-4 courses from at least 3 sepa	rate categories below:			
Course:	Course:	(3)	1) History HIST 111,	112, 201, 202			
Course   Gourse   G			Course: (:	3)			
Area I - Written Communications (6) ENGL 101 Comp & Rhetoric II (3) or Transfer: TGE (ENGL 175) for ENGL 102 only or Transfer: TGE (ENGL 175) for ENGL 102 only  Area II - Mathematics (3) MATH 105, 106, 107, 121, 131, 132 or 171 Course: (1) Area III - Laboratory Science (8) Or Transfer: TGE (MATH 175) Course: (2) Area III - Laboratory Science (8) BIOL 101, 102, 202, 204, 206, CHEM 121, 151, 152 BIOL 212, 254, 255 Course: (3) BIOL 211, 102, 201 PHYS 151, 152, 171, 172 Course: (4) Course: (4) Course: (4) Course: (4) Course: (4) Course: (5) Course: (6) Course: (7) Transfer: TGE (ART 175, MUSC 115, THR 110, 136, 211 Course: (8) Course: (9) Or Transfer: TGE (ART 175, MUSC 115, THR 175, HUM 175) Holloophy PHIL 100, 101, 200 Course: (9) Course: (1) Course: (3) Course: (4) PSY 102 \$5 SOC 101, 102, BSAD 100, CIUS 111, SWK 101 Course: (3) Course: (3) Course: (3) Course: (4) PSY 175, SOC 175   * Includes 35 hours of the NM Common Core plus 6 additional			Course: (:	3)			
ENGL 102 Comp & Rhetoric II (3)	Area I - Written Communicat	tions (6)					
ENGL 102 Comp & Rhetoric II (3)	ENGL 101 Comp & Rhetoric I	(3)	2) Literature ENGL 150	), 200, 205, 225, 265			
Course:   (3)   or Transfer: TGE (ENGL 275   MATH 105, 106, 107, 121, 131, 132 or 171   ARSHetics (Art, Music, Theater)   ART 211, 241, 261; MUSC 111, 119; THR 110, 136, 211   Or Transfer: TGE (MATH 175)   Course:   ( )   Course:   ( )   Course:   ( )   Or Transfer: TGE (MATH 175)   Course:   ( )   Course:   ( )   Or Transfer: TGE (MATH 175)   MISC 175, THR 175, HUM 175)   MISC 101, 102, 202, 204, 206, CHEM 121, 151, 152   MISC 101, 102, 202, 204, 206, CHEM 121, 151, 152   MISC 101, 102, 202, 204, 206, CHEM 121, 151, 152   MISC 101, 102, 202, 204, 205   PHSC 101, 115, 171   Course:   (3)   Course:	ENGL 102 Comp & Rhetoric II		ENGL 293	3, 296; LALS 243			
Course:   (3)   or Transfer: TGE (ENGL 275   MATH 105, 106, 107, 121, 131, 132 or 171   ARSHetics (Art, Music, Theater)   ART 211, 241, 261; MUSC 111, 119; THR 110, 136, 211   Or Transfer: TGE (MATH 175)   Course:   ( )   Course:   ( )   Course:   ( )   Or Transfer: TGE (MATH 175)   Course:   ( )   Course:   ( )   Or Transfer: TGE (MATH 175)   MISC 175, THR 175, HUM 175)   MISC 101, 102, 202, 204, 206, CHEM 121, 151, 152   MISC 101, 102, 202, 204, 206, CHEM 121, 151, 152   MISC 101, 102, 202, 204, 206, CHEM 121, 151, 152   MISC 101, 102, 202, 204, 205   PHSC 101, 115, 171   Course:   (3)   Course:	· · · · · · · · · · · · · · · · · · ·		Course: (:	3)			
Area II - Mathematics (3)			Course: (:	3)			
Course:	Area II - Mathematics (3)						
Course:	MATH 105, 106, 107, 121, 131	, 132 or 171	3) Aesthetics (Art, Music, Theater)				
Course:	Course:	( )					
Course:			Course: (	)			
Pick two courses (plus labs) from the following:  BIOL 101, 102, 202, 204, 206, CHEM 121, 151, 152  BIOL 212, 254, 255  PHSC 101, 115, 171  GEOL 101, 102, 201  PHYS 151, 152, 171, 172  Course: (4)  Or TGE (BIOL 175, CHEM 175, GEOL 175, PHSC 175, PHYS 175)  Area IV - Social and Behavioral Sciences (6-9) **  Pick 2-3 courses from different groups of the following: 1) ANTH 201, 202, 212/214; GEOG 201, 202, 205 2) ECON 200, 201, 202 3) POLS 201, 202 4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101  Course: (3)  Course: (3)  Technology Literacy (3)  CMPS 110, CMPS 111, ART 104, or take a challenge exam.  Course: (3)  or Transfer: TGE (CMPS 175)  Technology Literacy (3)  CMPS 110, CMPS 171, ART 104, or take a challenge exam.  Course: (3)  or Transfer: TGE (CMPS 175)  Technology Literacy (3)  CMPS 110, CMPS 111, ART 104, or take a challenge exam.  Course: (3)  or Transfer: TGE (CMPS 175)  * Includes 35 hours of the NM Common Core plus 6 additional WNMU hours  ** The total credits from Area IV and Area V must be 18 hours.  Note: TGE = Transferred General Education courses listed by HED or other transfer agreements, but with no WNMU equivalent  BS Requirement (6)  MATH 321 Statistics, plus one CMPS course beyond Gen'l. Ed or BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics (3)  MATH 321 Statistics (3)  Course: (3)  Course				)			
BIOL 101, 102, 202, 204, 206, CHEM 121, 151, 152 Course:	Area III - Laboratory Science	e (8) (see page 2)	or Transfer: TGE (ART 175, MUSC	175, THR 175, HUM 175)			
BIOL 212, 254, 255 PHSC 101, 115, 171 PHYS 151, 152, 171, 172 Course: (4) Course: (4) or TGE (BIOL 175, CHEM 175, GEOL 175, PHSC 175, PHYS 175)  Area IV - Social and Behavioral Sciences (6-9) ** Pick 2-3 courses from different groups of the following: 1) ANTH 201, 202, 212/214; GEOG 201, 202, 205 2) ECON 200, 201, 202 3) POLS 201, 202 4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101 Course: (3) Course: (3)  * Includes 35 hours of the NM Common Core plus 6 additional WNMU hours  ** The total credits from Area IV and Area V must be 18 hours.  Note: TGE = Transferred General Education courses or Transfer TGE (ANTH 175, ECON 175, GEOG 175, POLS 175, PSY 175, SOC 175)  MATH 321 Statistics, plus one CMPS course beyond Gen'l. Ed or BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics (3)  Course: (3)  BS Requirement (6) 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: (4) Course: (5) Course: (6) Course: (7) Course: (8) Course: (9)	Pick two courses (plus labs) from	m the following:	<b>4) Philosophy</b> PHIL 100,	101, 200			
BIOL 212, 254, 255 PHSC 101, 115, 171 PHYS 151, 152, 171, 172 Course: (4) Course: (4) or TGE (BIOL 175, CHEM 175, GEOL 175, PHSC 175, PHYS 175)  Area IV - Social and Behavioral Sciences (6-9) ** Pick 2-3 courses from different groups of the following: 1) ANTH 201, 202, 212/214; GEOG 201, 202, 205 2) ECON 200, 201, 202 3) POLS 201, 202 4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101 Course: (3) Course: (3)  * Includes 35 hours of the NM Common Core plus 6 additional WNMU hours  ** The total credits from Area IV and Area V must be 18 hours.  Note: TGE = Transferred General Education courses or Transfer TGE (ANTH 175, ECON 175, GEOG 175, POLS 175, PSY 175, SOC 175)  MATH 321 Statistics, plus one CMPS course beyond Gen'l. Ed or BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics (3)  Course: (3)  BS Requirement (6) 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: (4) Course: (5) Course: (6) Course: (7) Course: (8) Course: (9)	BIOL 101, 102, 202, 204, 206,	CHEM 121, 151, 152	Course: (:	3)			
GEOL 101, 102, 201  Course: (4)  Course: (4)  or TGE (BIOL 175, CHEM 175, GEOL 175, PHSC 175, PHYS 175)  Area IV - Social and Behavioral Sciences (6-9) **  Pick 2-3 courses from different groups of the following: 1) ANTH 201, 202, 212/214; GEOG 201, 202, 205  2) ECON 200, 201, 202 3) POLS 201, 202 4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101  Course: (3)  MATH 321 Statistics, plus one CMPS course beyond Gen'l. Ed or BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics  (3)  MATH 321 Statistics  (3)  Course: (3)  Course: (3)  Course: (3)  MATH 321 Statistics  (3)  Course: (3)  Course: (3)  Course: (3)  Course: (3)  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: (4)  Course: (3)  Course: (3)  Course: (4)  Course: (3)  Course: (5)  Technology Literacy (3)  Course: (3)  Transfer: TGE (PHIL 175)  Course: (3)  Course: (3)  Course: (3)  Transfer: TGE (CMPS 111, ART 104, or take a challenge exam.  Course: (3)  Transfer: TGE (CMPS 175)  Transfer: TGE (PHIL 175)  Course: (3)	BIOL 212, 254, 255	PHSC 101, 115, 171	Course: (:	3)			
Course:	GEOL 101, 102, 201	PHYS 151, 152, 171, 172	or Transfer: TGE (PHIL 175	5)			
Course:	Course:	(4)					
CMPS 110, CMPS 111, ART 104, or take a challenge exam.  Course:		(4)					
CMPS 110, CMPS 111, ART 104, or take a challenge exam.  Course:	or TGE (BIOL 175, CHEM 175	GEOL 175, PHSC 175, PHYS 175)	Technology Literacy (3)				
Pick 2-3 courses from different groups of the following:  1) ANTH 201, 202, 212/214; GEOG 201, 202, 205  2) ECON 200, 201, 202 3) POLS 201, 202  4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101  Course:  (3)  Course: (3)  Course: (3)  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. Edor BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics  (3)  MATH 321 Statistics (3)  MATH 321 Statistics (3)  Or Transfer: TGE (CMPS 175)  * Includes 35 hours of the NM Common Core plus 6 additional WNMU hours  ** The total credits from Area IV and Area V must be 18 hours.  Note: TGE = Transferred General Education courses listed by HED or other transfer agreements, but with no WNMU equivalent  ** 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.  MATH 321 Statistics (3)  Course: (3)  Course: (3)  Coruse: (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)  Complete any upper division Spanish course, or one of the following: SPAN 202, BLED 431 or CLEP for four semesters of Spanish.  Course: (3)				or take a challenge exam.			
Pick 2-3 courses from different groups of the following:  1) ANTH 201, 202, 212/214; GEOG 201, 202, 205  2) ECON 200, 201, 202 3) POLS 201, 202  4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101  Course:  (3)  Course: (3)  Course: (3)  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. Edor BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics  (3)  MATH 321 Statistics (3)  MATH 321 Statistics (3)  Or Transfer: TGE (CMPS 175)  * Includes 35 hours of the NM Common Core plus 6 additional WNMU hours  ** The total credits from Area IV and Area V must be 18 hours.  Note: TGE = Transferred General Education courses listed by HED or other transfer agreements, but with no WNMU equivalent  ** 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.  MATH 321 Statistics (3)  Course: (3)  Course: (3)  Coruse: (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)  Complete any upper division Spanish course, or one of the following: SPAN 202, BLED 431 or CLEP for four semesters of Spanish.  Course: (3)	Area IV - Social and Behavior	ral Sciences (6-9) **	Course: (3)				
2) ECON 200, 201, 202 3) POLS 201, 202   * Includes 35 hours of the NM Common Core 4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101  Course: (3)	Pick 2-3 courses from different	groups of the following:					
4) PSY 102 5) SOC 101, 102, BSAD 100, CJUS 111, SWK 101  Course:	1) ANTH 201, 202, 212/214; G	EOG 201, 202, 205					
Course:	2) ECON 200, 201, 202 3) P	POLS 201, 202	* Includes 35 hours of the	e NM Common Core			
Course: (3) must be 18 hours.  Course: (3) Note: TGE = Transferred General Education courses or Transfer TGE (ANTH 175, ECON 175, GEOG 175, POLS 175, PSY 175, SOC 175)  BS Requirement (6) OR BA Requirement (minimum of 3)  MATH 321 Statistics, plus one CMPS course beyond Gen'l. Ed or BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics (3) Course: (3)	4) PSY 102 5) SOC 101, 102	2, BSAD 100, CJUS 111, SWK 101	plus 6 additional W	NMU hours			
Course: (3) must be 18 hours.  Course: (3) Note: TGE = Transferred General Education courses or Transfer TGE (ANTH 175, ECON 175, GEOG 175, POLS 175, PSY 175, SOC 175)  BS Requirement (6) OR BA Requirement (minimum of 3)  MATH 321 Statistics, plus one CMPS course beyond Gen'l. Ed or BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics (3) Course: (3)	Course:	(3)	** The total credits from A	rea IV and Area V			
Course:		(3)	must be 18 hours.				
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MATH 321 Statistics, plus one CMPS course beyond Gen'l. Ed  or BIOL/GEOG 361/363 Intro to GIS  MATH 321 Statistics  (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)	PSY 175, SOC 1	75)	but with no WNMU	J equivalent			
or BIOL/GEOG 361/363 Intro to GIS following: SPAN 202, BLED 431 or CLEP for four semesters of Spanish.  MATH 321 Statistics (3) (3)	BS Requi	irement (6)	BA Requirement (r	ninimum of 3)			
of Spanish.  MATH 321 Statistics (3) Course: (3)	MATH 321 Statistics, plus one	CMPS course beyond Gen'l. Ed	Complete any upper division Spanis	h course, or one of the			
MATH 321 Statistics (3) Course: (3)	or BIOL/GEOG 361/363 Intro t	to GIS	following: SPAN 202, BLED 431 o	or CLEP for four semesters			
MATH 321 Statistics (3) Course: (3)			_				
Course: (3)	MATH 321 Statistics	(3)	Course: (:	3)			
	Course:	( )	Course: (1	3)			

## Degree Plan - Cell & Molecular Biology Major

## **SUPPORTING COURSEWORK (8 credit hours)**

Course(Credits)	Sem/Year	<u>Grade</u>	<u>Course(Credits)</u>		Sem/Year	<u>Grade</u>
CHEM 151/153 Gen Chem I*	(4)		CHEM 152/154 Gen Chem	$II^*$ (4)		
Chemistry 151 aand 152 are require	d unless incl. in minor					
Ţ.	IFF SCIENCE (	OPE PEO	UIREMENTS (23 credit	hours)		
Course(Credits)	Sem/Year	Grade	Course(Credits)	<u>iiours)</u>	Sem/Year	Crada
			BIOL 301/303 Ecology	(4)		<u>Grade</u>
BIOL 202/203 Mjr I:Plant FFD	· (4)			(4)		
BIOL 204/205 Mjr II:Animal F	rD (4)		BIOL 366/368 Genetics			
BIOL 206/207 Mjr III:Cell Biolo			BIOL 422 Evolution	(3)		-
*May count as General Educatio	n Lab Science.					
CELL & MO	DLECULAR BIC	LOGY MA	JOR REQUIREMENTS	30 cre	dit hours)	
Course(Credits)	Sem/Year	Grade	Course(Credits)		Sem/Year	Grade
BIOL 360/362 Cell Biology			BIOL 476/478 Immunology	(4)		
BIOL 460 Cell Physiology	(3)		BIOL 486 Senior Project	-		
BIOL 465/467 Moleculr Geneti	cs (4)		6 credits of advisor approved	_		ed electives
BIOL 471/473 Mjrs Microbiolo	oov (4)	·	Course:		_	
BIOL 474 Virology	(3)		Course:	( )		
BIOL 474 Vilology	(3)		Course:	( )		
			Course.	( )_		
	MI	NOR DEG	REE COURSES			
Œ			r outside the Biology disc	inline)		
(-	Journy of Zoolog	y or a mino	i outside the blology disc	ipinic)		
Minor:			Number of Credits:			
(attach degree plan worksheet fe	or your minor, with co	ourse details)				
(access degree plant wormsheet i	or your minor, wrun o	ourse details)				
AΓ	DITIONAL CO	URSES (to	fulfill the 120 hour requi	rement)		
Course(Credits)	Sem/Year	Grade	Course(Credits)		Sem/Year	Grade
Course:	<u> </u>		Course:	( )		
Course:			Course:			
Course:			Course:			
Course:			Course:	( )		
Course:			Course:			
Course.	( )		Course.	( )_		
Service Learning 3 credi	ts:	S	Sem/Year:		Grade:	
201,100 2001		~				
<b>Upper Division Hours (4</b>	2 minimum):		Writing Intensive Hours	(12 min	imum):	
Total Hours (120 minim	um required):		Copy to Registrar:	date:		
Original completed on (d	late):		Grad. Audit sent:	date:		
Updated:						
Student Signature:				date:		
Advisor Signature:				date:		