

WESTERN NEW MEXICO UNIVERSITY

Degree Plan - Secondary Education (0803) & Science Education (0824)

Choice of 4 concentrations: Life Science (0412) Physical Science (0405) Earth & Space Science (1903) or General Science (1901)

School of Education & Department of Natural Science

Student Name: _____ ID # _____ Tel #: _____ Degree Type

Address: _____ Email: _____ ☐ BS

(complete - including street, city, state, zip) ☐ BA

Catalog Authority: 2019-20 Expected Completion: _____ Advisor: _____

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

Double Major

GENERAL EDUCATION REQUIREMENTS (31)

Applied Liberal Arts and Sciences (9)

	Sem/Year	Grade
ALAS 1810 Applied Liberal Arts & Sciences - Humanities	(3)	_____
ALAS 1820 Applied Liberal Arts & Sciences - Social/ Behav Sciences	(3)	_____
ALAS 1830 Applied Liberal Arts & Sciences - STEM	(3)	_____

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
Area I - Communications (6)	¹ ENGL 1110 Pre-requisite/Co-req		Area IV - Social and Behavioral Sciences (3)		
ENGL 1120 Composition II ¹			ANTH 1140 Intro to Cultural Anthropology		
COMM 1130 Public Speaking			ECON 1110 Survey of Economics		
COMM 1140 Intro to Media Writing			ECON 2110 Macroeconomic Principles		
COMM 2140 Small Group Communication			ECON 2120 Microeconomic Principles		
Course: _____ (3)			GEOG 1120 World Regional Geography		
Course: _____ (3)			GEOG 1130 Human Geography		

Area II - Mathematics (3-5)	² BCIS 1110 is Pre-requisite/Co-req		POLS 1110 Intro to Political Science		
MATH 1010 Mathematics for School Teachers			POLS 1120 American National Government		
MATH 1130 Survey of Mathematics ²			PSYC 1110 Intro to Psychology		
MATH 1220 College Algebra ²			SOCI 1110 Intro to Sociology		
MATH 1350 Intro to Statistics ²			SOCI 2310 Contemporary Social Problems		
MATH 1510 Calculus I ²			Course: _____ (3)		
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)

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: _____ ()

BS Requirement (6)

EDUC 2375 Tech Intgrtn Classrm (3) plus one other
Math and/or Computer Science course beyond Gen. Ed
including PSYC 2510 Statistical Principles for Psychology,
SOC 323 Social Statistics & GISS/GEOG 361/363 GIS

EDUC 2375 Tech Intgrtn Classrm (3) _____
Course: _____ (3) _____

Or

BA Requirement (minimum of 3)

Complete any upper division Spanish course, or one of the
following: SPAN 2120, BLED 431 **or** CLEP for four semesters
of Spanish.

Course: _____ (3) _____
Course: _____ (3) _____

Degree Plan - Double Major in Secondary Education & Science Education

SCIENCE EDUCATION CORE (27 credit hours - 8 credits may count as Gen'l Ed Lab Science)

<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) _____	_____	GEOL 1110/1110L Physical Geol	(4) _____	_____
BIOL 2644/2644L Animal FFD	(4) _____	_____	GEOL 2110/2110L Hist Geology	(4) _____	_____
CHEM 1215/1215L Gen'l Chem I	(4) _____	_____			
PHYS 1230/1230L Algebra-based Physics I			Capstone Course: Methods of Teaching Science		
<u>or</u> PHYS 1310/1310L Calculus-based Physics I			BIOL/PHSC/GEOL 450	(3) _____	_____
Course: _____	(4) _____	_____			

Select One Concentration from the Four Choices Below:

0412 - Life Science (19 credits)

BIOL 2110/2110L Cell Biology*	(4) _____	_____
BIOL 301/303 Ecology	(4) _____	_____
BIOL 366/368 Genetics	(4) _____	_____
BIOL 422 Evolution	(3) _____	_____
BIOL: _____	(4) _____	_____

0405 - Physical Science (21-22 credits)

CHEM 1225/1225L Gen Chemistry I	(4) _____	_____
PHYS 1240/1240L Algebra-based Physics II		
<u>or</u> PHYS 1320/1320L Calculus-based Physics II		
Course: _____	(4) _____	_____
CHEM 351/353 Organic Chem I	(5) _____	_____
CHEM 352/354 Organic Chem II	(5) _____	_____
Upper Div CHEM: _____	(3-4) _____	_____

1903 - Earth & Space Science (19 credits)

GEOL 301/303 Rocks & Minerals	(4) _____	_____
GEOL 2130/2130L Intro to Meteorol	(4) _____	_____
GEOL 2140 Geology of NM	(3) _____	_____
PHSC 115/116 Desc Astronomy	(4) _____	_____
Upper Div GEOL: _____	(4) _____	_____

1901 - General Science (18-20 credits)

BIOL 2110/2110L Cell Biology*	(4) _____	_____
CHEM 1225/1225L Gen Chem II	(4) _____	_____
GEOL 301/303 Rocks & Minerals	(4) _____	_____
Upper Div BIOL: _____	(3-4) _____	_____
Upper Div CHEM/GEOL/PHSC/PHYS: _____		
Course: _____	(3-4) _____	_____

Secondary Education Professional Core Requirements (41-44 credits hours)

1. Contextual Knowledge (12 credit hours)

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
BLED 2130 Multicult Education	(3) _____	_____	EDUC 2327 Student Growth/Dev	(3) _____	_____
EDUC 2375 Tech Intgrtn Classrm	(3) _____	_____	SPED 408 Intro Except Child	(3) _____	_____

2. Foundation (3 credit hours)

EDUC 200 Fndtns of Education	(3) _____	_____	NES Essential Academic Skills	Reading Score: _____
				Writing Score: _____
Admission to Teacher Ed Program	<input type="checkbox"/> yes			Math Score: _____

3. Application & Reinforcement (17 credit hours)

BLED 445 ESL Mthd/Cont Lit	(3) _____	_____	EDUC 436 Classroom Mgmt	(3) _____	_____
EDUC 447 Field Exper Lab	(1) _____	_____	EDUC 474 Classrm Assessmnt	(3) _____	_____
EDUC 471 Sec. Curric & Instr	(3) _____	_____	RDG 460 Reading Skills Sec Ed	(3) _____	_____
EDUC 447 Field Exper Lab	(1) _____	_____			

4. Capstone (10-12 credit hours)

NES Professional Knowledge: Secd	Score: _____	EDUC 494 Practice Teaching (9-11)	_____	_____
NES Content Knowledge	Score: _____	EDUC 496 Practice Teaching Sem	(1) _____	_____

Minimum CGPA of 2.75 needed to enter Capstone

Degree Plan - Double Major in Secondary Education & Science Education

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 date: _____ **Grad. Audit sent** date: _____

Updated _____

Student Signature: _____ date: _____

Advisor Signature: _____ date: _____

Assoc. Dean of SOE Signature: _____ date: _____