WESTERN NEW MEXICO UNIVERSITY
Degree Plan - Mathematics (1701)
Department of Mathematics and Computer Science

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

Address: _____ Email: _____ ☐ BA

Catalog Authority: 2020-21   Expected Completion: _____   Advisor: _____ ☐ BS

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 1830 STEM   (3)_____ _____

ALAS 1820 Social/ Behav Sci.   (3)_____ _____

Area I - Communications (6)   [1] **ENGL 1110 Pre-requisite/Co-req**   **Area IV - Social and Behavioral Sciences (3)**

ENGL 1120 Composition II [1]   (3)_____ _____   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

GEOG 1130 Human Geography

POLS 1110 Intro to Political Science

Area II - Mathematics (3)   [2] **BCIS 1110 is Pre-requisite/Co-req**   POLS 1120 American National Government

MATH 1010 Mathematics for School Teachers   PSYC 1110 Intro to Psychology

MATH 1130 Survey of Mathematics [2]   SOCI 1110 Intro to Sociology

MATH 1220 College Algebra [2]   SOCI 2310 Contemporary Social Problems

MATH 1350 Intro to Statistics [2]   Course: _____ (3)_____ _____

MATH 1510 Calculus I [2]

Course: _____ ( )_____ _____   **Area V - Humanities (3)**

ENGL 1410 Intro to Literature

Area III - Science (4)   ENGL 2310 Intro to Creative Writing

Pick **one** course (plus lab) from the following: HIST 1110 United States History I

BIOL 1110/1110L General Biology & Lab   HIST 1120 United States History II

BIOL 1140/1140L5 Biology for Health Sciences & Lab   HIST 1150 Western Civilization I

BIOL 2110/2110L Principles of Biology: Cell/Molecular & Lab   HIST 1160 Western Civilization II

BIOL 2210/2210L Human Anatomy & Physiology I & Lab   PHIL 1115 Intro to Philosophy

BIOL 2642/2642L Plant Form, Function and Diversity & Lab   Course: _____ (3)_____ _____

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

CHEM 1120/1120L Intro to Chemistry & Lab   **Area VI - Creative & Fine Arts (3-4)**

CHEM 1215/1215L General Chemistry I for STEM Majors & Lab   ARTS 1250 Design II

GEOL 1110/1110L Physical Geology & Lab   ARTS 1410 Introduction to Photography

GEOL 1120/1120/L Environmental Geology & Lab   ARTS 1610 Drawing I

GEOL 2110/2110L Historical Geology & Lab   ARTS 1630 Painting I

PHSC 1120/1120L Forensic Science I & Lab   ARTS 2321 Appreciation of Clay

Course: _____ (4)_____ _____   ARTS 2841 Appreciation of Sculpture

MUSC 1130 Music Appreciation

Course: _____ ( )_____ _____

BS Requirement	**OR**	**BA Requirement (3 credits minimum)**

MATH, CMPS (any 2 courses beyond Gen. Ed)   Complete any upper division Spanish course, or one of the

This requirement is fulfilled by the major core requirements   following: SPAN 2220, 303, BLED 431

or CLEP for four semesters

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

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

Degree Plan - Mathematics Major

SUPPORTING COURSEWORK (8 credit hours)

Select 8 credit hours from the Science List courses:

ANTH 1135/1135L Introduction to Biological Anthropology
BIOL 2110/2110L Principles of Biology: Cell/Molecular & Lab
BIOL 2210/2210L Human Anatomy & Physiology I & Lab
BIOL 2225/2225L Human Anatomy & Physiology II & Lab
BIOL 2642/2642L Plant Form, Function and Diversity & Lab
BIOL 2644/2644L Animal Form, Function and Diversity & Lab
CHEM 1215/1215L General Chemistry I for STEM Majors & Lab
CHEM 1225/1225L General Chimistry II for STEM Majors & Lab

(May count as Gen'l Ed Lab Science)

GEOL 1120/1120/L Environmental Geology & Lab
GEOL 2130/2139L Introduction to Meterology & Lab
GEOL 301/303 Rocks and Minerals & Lab
PHYS 1230/1230L Algebra-based Physics I & Lab
PHYS 1240/1240L Algebra-based Physics II & Lab
PHYS 1310/1310L Calculus-based Physics I & Lab
PHYS 1320/1320L Calculus-based Physics II & Lab

Course: _____ (4) _____ _____
Course: _____ (4) _____ _____

Majors take the Mathematics Core Requirements plus one of the two concentrations.

MATHEMATICS CORE REQUIREMENTS (34-41 credits)

Course(Credits)	Sem/Year	Grade	Course(Credits)	Sem/Year	Grade
CMPS 1x1 Problem Solving/Java (3)			MATH 2431 Discrete Mathematic (3)		
MATH 1220 College Algebra* (4)			MATH 2530 Calculus III (4)		
MATH 1230 Trigonometry* (3)			MATH 308 Matlab (3)		
MATH 1350 Introduction to Statisti (3)			MATH 312 Comp Linear Algebra (3)		
MATH 1510 Calculus I (5)			MATH 470 Topics in Comp Math (3)		
MATH 1520 Calculus II (4)			MATH 496 Sr Project & Sem. (3)		

* may be waived for students with the proper background

Additional Core courses for Computational and Applied Mathematics (12 credit hours)

Course(Credits)	Sem/Year	Grade	Course(Credits)	Sem/Year	Grade
CMPS 321 Problem Solving Java II (3)			MATH 323 Differential Eqtns (3)		
CMPS 331 Problem Solving Java III (3)			MATH 421 Adv Applied Statistics (3)		

OR Mathematics Education (Secondary) (12 credit hours)

Course(Credits)	Sem/Year	Grade	Course(Credits)	Sem/Year	Grade
MATH 304 Math for Sec Teach (3)			**Select 3 credit hours of upper division mathematics/CMPS**		
MATH 327 Survey of Geometry (3)			**courses except MATH 2132 and 2133.**		
MATH 451 Hist of Mathematics (3)			Course: _____ ( )		

MINOR DEGREE COURSES (18-24 hours outside the Mathematics discipline)

Minor: _____   Number of Credits: _____

(attach degree plan worksheet for your minor, with course details)

ADDITIONAL COURSES (to fulfill the 120 hour requirement)

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 on** (date)**:** _____

Student Signature: _____   date: _____

Advisor Signature: _____   date: _____