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

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

Address: _____  Email: _____  ☐ BA

(complete - incl street, city, state, zip) _____  ☐ BS

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

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

## GENERAL EDUCATION REQUIREMENTS (31)

| 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**

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

COMM 1130 Public Speaking

COMM 1140 Intro to Media Writing

COMM 2140 Small Group Communication

Course: _____ (3) _____ _____

**Area II - Mathematics (3)**　[2] **BCIS 1110 is Pre-requisite/Co-req**

MATH 1010 Mathematics for School Teachers

MATH 1130 Survey of Mathematics[2]

MATH 1220 College Algebra[2]

MATH 1350 Intro to Statistics[2]

MATH 1510 Calculus I[2]

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 1120/1120/L Environmental Geology & Lab

GEOL 2110/2110L Historical Geology & Lab

PHSC 1120/1120L Forensic Science I & Lab

Course: _____ (4) _____ _____

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

ANTH 1140 Intro to Cultural Anthropology

ECON 1110 Survey of Economics

ECON 2110 Macroeconomic Principles

ECON 2120 Micrecononic 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 Introduction 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** | **OR** | **BA Requirement (3 credits minimum)** |
|---|---|---|

**BS Requirement**

MATH, CMPS (any 2 courses beyond Gen. Ed)

**This requirement is fulfilled by the major core requirements**

Course: _____ (3) _____ _____

Course: _____ (3) _____ _____

**BA Requirement (3 credits minimum)**

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

Course: _____ (3) _____ _____

# Degree Plan - Mathematics Major

## SUPPORTING COURSEWORK (8 credit hours)

**Select 8 credit hours from the Science List courses:**     **(May count as Gen'l Ed Lab Science)**

ANTH 1135/1135L  Introduction to Biological Anthropology     GEOL 1120/1120/L Environmental Geology & Lab

BIOL 2110/2110L Principles of Biology: Cell/Molecular & Lab     GEOL 301/303 Rocks and Minorals & Lab

BIOL 2210/2210L Human Anatomy & Physiology I & Lab     GEOL 305/307 Introduction to Weather & Lab

BIOL 2225/2225L Human Anatomy & Physiology II & Lab     PHYS 1230/1230L Algebra-based Physics I & Lab

BIOL 2642/2642L Plant Form, Function and Diversity  & Lab     PHYS 1240/1240L Algebra-based Physics II & Lab

BIOL 2644/2644L Animal Form, Function and Diversity & Lab     PHYS 1310/1310L Calculus-based Physics I & Lab

CHEM 1215/1215L General Chemistry I for STEM Majors & Lab     PHYS 1320/1320L Calculus-based Physics II & Lab

CHEM 1225/1225L General Chimistry II for STEM Majors & 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 I (3) | | | MATH 1220 College Algebra* (4) | | |
| MATH 312 Comp Linear Algebra  (3) | | | MATH 1230 Trigonometry* (3) | | |
| MATH 2431 Discrete Mathematics (3) | | | MATH 1350 Introduction to Statistic (3) | | |
| MATH 308 Matlab (3) | | | MATH 1510 Calculus I (5) | | |
| MATH 470 Topics in Comp Math (3) | | | MATH 1520 Calculus II (4) | | |
| MATH 496 Sr Project & Sem. (3) | | | MATH 2530 Calculus III (4) | | |

        * 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 |
|---|---|---|---|---|---|
| MATH 323 Differential Eqtns (3) | | | CMPS 321 Problem Solving Java II (3) | | |
| MATH 421 Adv Applied Statistics (3) | | | CMPS 331 Problem Solving Java III (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 minimum required):** _____     **Copy to Registrar on** (date)**:** _____

**Student Signature:** _____ date: _____

**Advisor Signature:** _____ date: _____