

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

Student Name: \_\_\_\_\_ SSN# \_\_\_\_\_ Degree Type \_\_\_\_\_  
 Address: \_\_\_\_\_  BS  BA  
 Catalog Authority: 2002 Expected Completion: \_\_\_\_\_ Advisor: \_\_\_\_\_

**NEW GENERAL EDUCATION REQUIREMENTS (43-46)**

**Area I - Oral Communication (3)**  
 Pick one of the following: COMM 110, THR 211, THR 250  
 Course (Credit): \_\_\_\_\_

**Area II - Written Communication (6)**  
 ENGL 101 Comp & Rhetoric I (3) \_\_\_\_\_  
 ENGL 102 Comp & Rhetoric II (3) \_\_\_\_\_

**Area III - Fine Arts (6)**  
 Pick one of the following: ART 211, MUSC 111, THR 110  
 Course (Credit): \_\_\_\_\_

Pick at least 3 hours from any of the following:  
 ART 101, 102, 103, 107, 205, 210,221,230,241,251,261,271  
 MUSC 100, 101, 119, 151  
 THR 136, 211, 215, 250  
 Course (Credit): \_\_\_\_\_

**Area IV - Physical and Mental Well-Being (2)**  
 MVSC 100 Lifetime Wellness (1) \_\_\_\_\_

Pick 1 hour from any of the following: MVSC 103, 104,  
 105, 106, 109, 112, 113, 118, 119, 121, 124, 125, 134, 135,  
 137, 138, 139, 140, 141, 143, 144, 151, 152, 153, 157  
 Course (Credit): \_\_\_\_\_  
 Other service: \_\_\_\_\_  
 (military, sports, police academy)

**Area V - Social and Behavioral Sciences (6)**  
 Pick two courses from separate disciplines from the following:  
 ANTH 201, 202      ECON 200, 201, 202      GEOG 202, 205  
 POLS 201      PSY 102      SOC 101, 102  
 Course (Credit): \_\_\_\_\_  
 Course (Credit): \_\_\_\_\_

**Other Requirement (3 credit hours)**

CMPS 170 Prog Fundamentals (3) \_\_\_\_\_

**BS Requirement**

MATH, CMPS (any 2 courses beyond Gen. Ed)  
 This requirement is fulfilled by the major core requirements

**Area VI - Mathematics (3 or 6)**  
 Pick one MATH course numbered 131 - 299  
**or** two MATH courses numbered below 131  
 Course (Credit): \_\_\_\_\_  
 Course (Credit): \_\_\_\_\_

**Area VII - Computer (3)**  
 Pick either CMPS 110 or 160, or take a challenge exam.  
 Course (Credit): \_\_\_\_\_

**Area VIII - Humanities (3)**  
 Pick one of the following: ENGL 200, 201, 205, 225, 240,  
 ENGL 265, 296, 297, 298, 299; or HUM 205  
 Course (Credit): \_\_\_\_\_

**Area IX - Laboratory Science (8)**  
 Pick two courses (including lab) from the following:  
 BIOL 101, 102, 111, 112      CHEM 121, 151\*, 152\*  
 GEOG 201      GEOL 101, 102, 201  
 MVSC 240      PHYS 151, 152, 171\*, 172\*  
 PHSC 101, 102, 115, 181/183, 182/184  
 Course (Credit): \_\_\_\_\_  
 Course (Credit): \_\_\_\_\_  
 \*CHEM 151&152 or PHYS 171&172 are required for this major

**Area X - History (3)**  
 Pick one course from the following:  
 HIST 111, 112, 201, 202  
 Course (Credit): \_\_\_\_\_

Note: the two lowest level math courses taken will be considered  
 General Education credit hours.

**BA Requirement (3 credits minimum)**

Completion of one of the following: SPAN 202, SPAN 252,  
 SPAN 214 or any upper level Spanish course.  
 Course (Credit): \_\_\_\_\_  
 Course (Credit): \_\_\_\_\_

## Degree Plan - Mathematics Major

Majors take the Mathematics Core Requirements plus one of the three emphasis areas.

### MATHEMATICS CORE REQUIREMENTS (22 Minimum)

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
MATH 131 College Algebra (3) *	_____	_____	MATH 210 Fndtns Math Thkg (3)	_____	_____
MATH 132 Trigonometry (3) *	_____	_____	MATH 271 Calculus III (4)	_____	_____
MATH 171 Calculus I (5)	_____	_____	MATH 321 Statistics (3)	_____	_____
MATH 172 Calculus II (4)	_____	_____	MATH 496 Sr Project & Sem. (3)	_____	_____

#### Statistics/Actuarial Science Emph (15 credits)

OR

#### Applied Mathematics Emphasis (15 credits)

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
MATH 312 Comp Linear Alg (3)	_____	_____	MATH 312 Comp Linear Alg (3)	_____	_____
MATH 323 Differential Eq (3)	_____	_____	MATH 323 Differential Eq (3)	_____	_____
MATH 421 Design of Exp (3)	_____	_____	MATH 421 Design of Exp (3)	_____	_____
MATH 471 Prob & Statistics I (3)	_____	_____	MATH 410 Abstract Math (3)	_____	_____
MATH 472 Prob & Statistics II (3)	_____	_____	<u>or</u> MATH 417 Num. Anal. (3)	_____	_____
			MATH 431 Math Modeling (3)	_____	_____

\* may be waived for students with the proper background

#### OR Mathematics Education Emphasis (15 credit hours)

<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>	<u>Course(Credits)</u>	<u>Sem/Year</u>	<u>Grade</u>
MATH 304 Math for Sec. Teach (3)	_____	_____	<b>Select 6 more credit hours of upper division MATH course</b>		
MATH 327 Survey of Geometry (3)	_____	_____	Course (Credit):	_____	_____
MATH 312 Comp Linear Alg (3)	_____	_____	Course (Credit):	_____	_____
<u>or</u> MATH 410 Abstract Math (3)	_____	_____			

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

Course (Credit):	_____	_____	Course (Credit):	_____	_____
Course (Credit):	_____	_____	Course (Credit):	_____	_____
Course (Credit):	_____	_____	Course (Credit):	_____	_____
Course (Credit):	_____	_____	Course (Credit):	_____	_____

#### ADDITIONAL COURSES (to fulfill the 128 hour requirement)

Course (Credit):	_____	_____	Course (Credit):	_____	_____
Course (Credit):	_____	_____	Course (Credit):	_____	_____
Course (Credit):	_____	_____	Course (Credit):	_____	_____
Course (Credit):	_____	_____	Course (Credit):	_____	_____

**Total Upper Division Hours (54 minimum required):** \_\_\_\_\_

(6 hours must be outside of major and minor disciplines)

**Total Writing Intensive Course Hours (minimum of 12 required):** \_\_\_\_\_

**Total Hours (128 minimum required):** \_\_\_\_\_ **Copy to Registrar on (date):** \_\_\_\_\_

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

**Updated on (date):** \_\_\_\_\_

**Student Signature:** \_\_\_\_\_

**Advisor Signature:** \_\_\_\_\_