

**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: 2015-16 Expected Completion \_\_\_\_\_ Advisor: \_\_\_\_\_

**GENERAL EDUCATION REQUIREMENTS (41)\***

**Course(Credits) Sem/Year Grade**  
**Area I - Oral Communications (3)**  
 Pick one of the following: COMM 110, THR 250  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 or Transfer: TGE (COMM 175) \_\_\_\_\_

**Area I - Written Communications (6)**  
 ENGL 101 Comp & Rhetoric I (3) \_\_\_\_\_  
 ENGL 102 Comp & Rhetoric II (3) \_\_\_\_\_  
 or Transfer: TGE (ENGL 175) for ENGL 102 only \_\_\_\_\_

**Area II - Mathematics (3)**  
 MATH 105, 106, 121, 131, 132 or 171 (or MATH 175 TGE)  
 Course \_\_\_\_\_ ( ) \_\_\_\_\_  
**This requirement is fulfilled by the major core requirements**

**Area III - Laboratory Science (8)**  
 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) \_\_\_\_\_  
 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) \_\_\_\_\_  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 or Transfer TGE (ANTH 175, ECON 175, GEOG 175, POLS 175,  
 PSY 175, SOC 175) \_\_\_\_\_

**Course(Credits) Sem/Year Grade**  
**Area V - Humanities and Fine Arts (9-12) \*\***  
 Pick 3-4 courses from at least 3 separate categories below:  
**1) History** HIST 111, 112, 201, 202  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 or Transfer: TGE (HIST 175) \_\_\_\_\_

**2) Literature**  
 ENGL 200, 201, 205, 225, 240, 293, 294, 296, 297  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 or Transfer: TGE (ENGL 275) \_\_\_\_\_

**3) Aesthetics (Art, Music, Theater)**  
 ART 211, 241, 261; MUSC 111, 119; THR 110, 136, 211  
 Course \_\_\_\_\_ ( ) \_\_\_\_\_  
 Course \_\_\_\_\_ ( ) \_\_\_\_\_  
 or Transfer: TGE (ART 175, MUSC 175, THR 175, HUM 175) \_\_\_\_\_

**4) Philosophy** PHIL 100, 101, 200  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 or Transfer: TGE (PHIL 175) \_\_\_\_\_

**Technology Literacy (3)**  
 CMPS 110, CMPS 111, ART 140, 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**  
 MATH, CMPS (any 2 courses beyond Gen. Ed)  
**This requirement is fulfilled by the major core requirements**

**OR BA Requirement (3 credits minimum)**  
 Completion of one of the following: SPAN 202, SPAN 252,  
 SPAN 214 or any upper level Spanish course.  
 Course \_\_\_\_\_ (3) \_\_\_\_\_  
 Course \_\_\_\_\_ (3) \_\_\_\_\_

## Degree Plan - Mathematics Major

### SUPPORTING COURSEWORK (11 credit hours)

Select one of the following groups of lab science courses (may count as Gen'l Ed Lab Science), plus CMPS 170.

CHEM 151/153 and 152/154 General Chemistry I & II

Course: \_\_\_\_\_ (4) \_\_\_\_\_

or PHYS 151/153 and 152/154 General Physics I & II

Course: \_\_\_\_\_ (4) \_\_\_\_\_

or PHYS 171/173 and 172/174 Principles of Physics I & II

CMPS 170 Computer Prog I (3) \_\_\_\_\_

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

### MATHEMATICS CORE REQUIREMENTS (22-29 credits)

| <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* | (4) _____       | _____        | 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) _____       | _____        |

\* may be waived for students with the proper background

#### 1. Statistics/Actuarial Science (15 credits)

OR

#### 2. Applied Mathematics (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 Eqtns   | (3) _____       | _____        | MATH 323 Differential Eqtns        | (3) _____       | _____        |
| MATH 421 Adv Apld Statistics  | (3) _____       | _____        | MATH 421 Adv Apld Statistics       | (3) _____       | _____        |
| MATH 471 Prob & Statistics I  | (3) _____       | _____        | MATH 410 Abstract Math             | (3) _____       | _____        |
| MATH 472 Prob & Statistics II | (3) _____       | _____        | <u>or</u> MATH 417 Numerical Anal. | (3) _____       | _____        |
|                               |                 |              | MATH 431 Math Modeling             | (3) _____       | _____        |

#### OR 3. Mathematics Education (Secondary) (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 credit hours of upper division mathmatic courses except MATH 301 and 302.</b> |                 |              |
| MATH 327 Survey of Geometry      | (3) _____       | _____        |   |                 |              |
| MATH 312 Comp Linear Alg         | (3) _____       | _____        | Course: _____ ( ) _____   | _____           | _____        |
| <u>or</u> MATH 410 Abstract Math | (3) _____       | _____        | Course: _____ ( ) _____   | _____           | _____        |

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

Minor: \_\_\_\_\_  
(attach degree plan worksheet for your minor, with course details)

Number of Credits: \_\_\_\_\_

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

|                        |                        |
|------------------------|------------------------|
| Course _____ ( ) _____ | Course _____ ( ) _____ |
| Course _____ ( ) _____ | Course _____ ( ) _____ |
| Course _____ ( ) _____ | Course _____ ( ) _____ |
| Course _____ ( ) _____ | Course _____ ( ) _____ |

**Upper Division Hours (54 minimum):** \_\_\_\_\_  
(6 hours must be outside of major and minor disciplines)

**Writing Intensive Hours (12 minimum):** \_\_\_\_\_

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

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

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

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

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