

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: 2017-18 Expected Completion: _____ Advisor: _____

GENERAL EDUCATION REQUIREMENTS (41)*

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, 107, 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) _____

BS Requirement

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

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 150, 200, 205, 225, 265, 293, 296
 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 104, 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

OR BA Requirement (3 credits minimum)

Complete any upper division Spanish course, or one of the
 following: SPAN 202, BLED 431 or CLEP for four semesters
 of Spanish.

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) _____ | _____ | Select 6 credit hours of upper division mathematics courses except MATH 301 and 302. | | |
| MATH 327 Survey of Geometry | (3) _____ | _____ | Course: _____ | () _____ | _____ |
| MATH 312 Comp Linear Alg | (3) _____ | _____ | Course: _____ | () _____ | _____ |
| <u>or</u> MATH 410 Abstract Math | (3) _____ | _____ | | | |

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 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 (12 minimum): _____

Total Hours (120 minimum required): _____ Copy to Registrar on (date): _____

Original completed on (date): _____ Grad. Audit sent on (date): _____

Updated: _____

Student Signature: _____ date: _____

Advisor Signature: _____ date: _____