# WESTERN NEW MEXICO UNIVERSITY <br> Degree Plan -AS Degree in Mathematics - Pre-Engineering (1705) Department of Mathematics and Computer Science 



## GENERAL EDUCATION REQUIREMENTS (31)

AA or AS earned within New Mexico: YES ___
$\qquad$ If earned, then General Education is complete. Course(Credits) Sem/Year Grade $\quad \underline{\text { Course(Credits) }}$ Sem/Year $\quad$ Grade

Applied Liberal Arts and Sciences (9)
ALAS 1810 Humanities (3)
(3)
(3) $\qquad$
$\qquad$ ALAS 1830 STEM
(3) $\qquad$
Area IV - Social and Behavioral Sciences (3)
ANTH 1140 Intro to Cultural Anthropology
GEOG 1120 World Regional Geography
GEOG 1130 Human Geography
ECON 1110 Survey of Economics
ECON 2110 Macroeconomic Principles
ECON 2120 Microecononic Principles POLS 1110 Intro to Political Science
Area II - Mathematics (3) $\quad{ }^{\text {L }}$ 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: $\qquad$ ( ) $\qquad$ POLS 1120 American National Government PSYC 1110 Intro to Psychology SOCI 1110 Intro to Sociology SOCI 2310 Contemporary Social Problems Course: $\qquad$ (3) $\qquad$
Area V - Humanities (3)
ENGL 1410 Intro to Literature

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) $\qquad$
HIST 1110 United States History I
HIST 1120 United States History II
HIST 1150 Western Civilization I
HIST 1160 Western Civilization II
ENGL 2310 Intro to Creative Writing PHIL 1115 Intro to Philosophy Course: $\qquad$ (3) $\qquad$
Area VI - Creative \& Fine Arts (3-4)
ARTS 1250 Design II
ARTS 1410 Intro 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: $\qquad$ ( ) $\qquad$
Mathematics Core Requirements ( 18 credit hours)

Course(Credits)
MATH 1230 Trigonometry *
Course(Credits)
MATH 1350 Intro to Statistics
(3) Sem/Year
(5)
(4)

MATH 1520 Calculus II
Course:
(3)
$\overline{\underline{\text { Sem/Year }}} \overline{\underline{\text { Grade }}}$
*May be waived with proper background evidence by test score on Accuplacer, or transfer (grade of C or better) from another college.

| Grade |
| :--- |

Electives - Select from the following courses to obtain the minimum 60 credit hours required:
MATH 2431 Discrete Math (3), MATH 2530 Calculus III (4) ${ }^{3}$, MATH 421 Adv. Appld Stats (3), MATH 323 Differential Equations (3) MATH 470 Topics in Mathematics (3), CMPS 1x1 Prob Solving Java I (3), CMPS 321 Prob Solving Java II (3), CHEM 1225/1225L Gen'l Chem II STEM \& Lab (4) ${ }^{3}$, PHYS 1240/1240L Algebra-based Physics II \& Lab (4) ${ }^{3}$, PHYS 1320/1320L Calculus-Based Physics II \& Lab (4) ${ }^{3}$
${ }^{3}$ (recommended for pre-engineering students)

| Course: |
| :--- | :--- | :--- | :--- |
| Course: |

Total Credit Hours (minimum 60 required):
Student Signature: $\quad$ date: $\qquad$
Advisor Signature: $\qquad$ date: $\qquad$

