

# Navajo Technical University

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

## Certificate – Mathematics Requirements 36 Credits

Mathematics is a program that focuses on the analysis of quantities, magnitudes, forms, and their relationships, using symbolic logic and language. It includes instruction in algebra, calculus, functional analysis, geometry, number theory, logic, topology and other mathematical specializations. Mathematics is a versatile program that can be applied to almost any career. A student with a degree in mathematics will have an endless opportunity. A student who studies mathematics will have the ability to think analytically, solve problems, and communicate precisely. Graduates of this program should be able to seek gainful employment as a teacher, mathematician, statistician, financial analyst, consultant, engineer, physician, lawyer, and research analyst.

| GENERAL EDUCATION REQUIREMENTS |                             | Credits | Prerequisites                            | Semester/Transfer | Grade |
|--------------------------------|-----------------------------|---------|--|-------------------|-------|
| ENGL 1110                      | Composition I               | 3       | ENGL100 or satisfactory placement scores |                   |       |
| MATH 1220                      | College Algebra             | 4       | MATH 1215                                |                   |       |
| NAVA XXX                       | Dine Studies Course         | 3       |  |                   |       |
| BCIS 1115                      | Introduction to Computers   | 3       |  |                   |       |
| SSC 100                        | College Success             | 1       |  |                   |       |
| MATHEMATICS CORE COURSES       |                             |         |  |                   |       |
| Semester ONE                   |                             | Credits |  |                   |       |
| ENGR103                        | Introduction to Engineering | 3       |  |                   |       |
| MATH 1240                      | Pre-Calculus                | 4       | MATH 1220                                |                   |       |
| MATH 1230                      | Trigonometry                | 4       | MATH 1220                                |                   |       |
| Semester TWO                   |                             |         |  |                   |       |
| MATH 1510                      | Calculus I                  | 4       | MATH 1230 & MATH 1240                    |                   |       |
| MATH 1350                      | Introduction to Statistics  | 3       | MATH 1220                                |                   |       |
| PHYS 1230C                     | Algebra Based Physics I     | 4       | MATH 1215                                |                   |       |
| TOTAL REQUIRED CREDIT HOURS    |                             | 36      |  |                   |       |

*\*\* Please check course descriptions for the appropriate prerequisite course(s).*

|                  |            |      |
|------------------|------------|------|
|                  | Signatures | Date |
| Student:         |            |      |
| Advisor:         |            |      |
| Registrar:       |            |      |
| Graduation Date: |            |      |

Updated 7/14/2024