<u>**Technical Math Lab-onl**</u>
Math 113L-1 credit
SP 2022

Instructor: **Jose Ernie Vanguardia** **Email:** jvanguardia@navajotech.edu
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Office Hours: M/W 9:00 12::00pm (by appointment)
Office Hours Online: Email anytime but will respond within 24 hours Monday-Thursday, will respond within 48 hours Friday-Sunday.

Math 113 L – 1 - 11:20 - 12:20 (R- Traditional – Face-to-Face) (SUB 213)

Class Location & Meeting Times: Student Union Building Room 213
Required Materials: Laptop with internet
  (not required)Suggested Textbook: Elementary Technical Mathematics I
    Dale Ewen, C. Robert Nelson
    ISBN-13: 978-1-285-19919-1
    Textbook Cost: (price may vary)
  Suggested online: Khan Academy, The Math XL (Pearson), Webassign (Cengage)
  Tools: Scientific Calculator
  Lab Fee: None
Note: MTH 113 Lab must be taken together with MTH 113, cannot be taken alone.

MTH ll3L – Technical Math with lab (1-credit hour class)

Accuplacer Scores
 Type:Next-Generation
   Next-Generation Arithmetic is at most 238
   Next-Generation Quantitative Reasoning, Algebra, and Statistics is less than 215

MTH ll3 – Technical Math (3-credit hour class)

Accuplacer Scores
 Type:Next-Generation
   Next-Generation Arithmetic is greater than 238
   Next-Generation Quantitative Reasoning, Algebra, and Statistics is less than 215

Mission Statement
        Navajo Technical University's mission is to provide college readiness programs, certificates, associate, baccalaureate, and graduate degrees. Students, faculty, and staff will provide value to the Diné community through research, community engagement, service learning,

and activities designed to foster cultural and environmental preservation and sustainable economic development. The University is committed to a high quality, student-oriented, hands-on-learning environment based on the Diné cultural principles: *Nitsáhákees, Nahátá, Ĭína, Siihasin.*

Math 113L - Course Description
Technical Mathematics L with lab is a 1-credit hour lab. The math lab will focus on additional practice exercises on concepts and applications involving arithmetic, fraction, decimal, and percentages. The math lab will offer tutoring and online assignments. The class is aligned to Math 113 that will cover lessons pertaining to Basic Concepts, Signed numbers, Metric system, Equations & Formulas, Ratio and Proportion, Linear equations, Geometry, and Right Triangle Trigonometry. Also, the course will be integrated to other fields of study to make it real and relevant. At times, the learning process relating to the Navajo culture in the areas of Nitsahakees, Nahatah, Iina, and Sihasin will be covered.

Course Objectives
At the end of the semester the students will:
- apply basic computation rules;
- define / describe technical math concepts;
- solve problems involving fundamental operations

Assessments:
Pre/post Survey. At the beginning and at the end of the semester, students will complete an attitudinal survey to ascertain growth in competence and confidence in mathematics. The survey will help identify opportunities to improve the course in the future. **Classroom Assessments.** Classroom Assessments are ungraded activities conducted in class. They provide feedback on whether or not students understand course material so that adjustments can be made before the end of the term. They are ungraded.
1. **Assignments.** Every week students will have assignments.
2. **Quizzes.**

COURSE OUTCOMES	COURSE MEASUREMENTS
Students will apply fundamental operations to integers, fractions, decimals, and percentages.	Formative assessment, Summative assessment, Applications.
Students will solve real-world application problems that measures basic mathematics skills	

Schedule Disclaimer: The course schedule is subject to adjustment depending on the needs of the class to focus more on a specific chapter.

Grading Plan: Math 113L (1-credit hour lab)
Quizzes	25%	A → 90 to 100%	
Assignments	50%	B → 80 to 89%	
Midterm/Finals	20	C → 70 to 79%	
		D → 60 to 69%	
Attendance/Participation	5%	F → 59% and below	

Study Time for Online Courses
For an online course of one (1) credit hour, a student is expected to spend four hours (4) per week studying the course materials.

Grading Policy
Each student must do his or her own homework and case studies. Discussion among students on homework and cases is encouraged for clarification of assignments, technical details of using software, and structuring major steps of solutions - especially on the course's Web site. Students must do their own work on the homework and exam. Cheating and Plagiarism are strictly forbidden. Cheating includes but is not limited to: plagiarism, submission of work that is not the student's own, submission or use of falsified data, unauthorized access to exam or assignment, use of unauthorized material during an exam, supplying or communicating unauthorized information for an assignment or exam.

Participation
Students are expected to login to your account at least **2 times a week**.
Students can be dropped by missing 3 assignments.

Late Assignments or Work
Due dates are assigned every assignment. Submitting work beyond the date will incur a grade penalty. Scores will be capped to 20% for 1-day late, 40% for 2-day late, 60% for 3-day late, 100% for 4 day late. Submitting work that is more than 3 days late will not receive any more grades but the teacher will accept the work for completion purposes.

Academic Integrity
Integrity (honesty) is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own. Students who engage in academic dishonesty diminish their education and bring discredit to the University community. Avoid situations likely to compromise academic integrity such as: cheating, facilitating academic dishonesty, and plagiarism; modifying academic work to obtain additional credit in the same class unless approved in advance by the instructor, failure to observe rules of academic integrity established by the instructor.

Diné Philosophy of Education
The Diné Philosophy of Education (DPE) is incorporated into every class for students to become aware of and to understand the significance of the four Diné philosophical elements, including its affiliation with the four directions, four sacred mountains, the four set of thought processes and so forth: Nitsáhákees, Nahát'á, Íína and Siih Hasin which are essential and relevant to self-identity, respect and wisdom to achieve career goals successfully.

Students with Disabilities
The Navajo Technical University and the Math department are committed to serving all enrolled students in a non-discriminatory and accommodating manner. Any student who feels he/she may need an accommodation based on the impact of disability, or needs special accommodations should inform NTU in accordance with the procedures of the subsection entitled "Students with Disabilities" under Section 7: Student Support Programs, NTU Student Handbook.