

Mesalands Community College



Dr. Moss

Welcome and Thank you!

Introduction

Mesalands

1. Is a 2 year community college
2. Serves Quay, Harding, and Union Counties
3. Serves Tucumcari, Clayton, Des Moines, Roy, Mosquero, Logan, San Jon and House School Districts
4. Degrees
 - a. Associate of Arts
 - b. Associate of Applied Science
 - c. Workforce
 - d. Community Education
 - e. Adult Education (HiSet)

Regional Importance

Only Higher Education institution between Albuquerque and Amarillo on I-40

Wind Program serves regional and national employers

Travel of 1.5-2.0 hours for the next physical site

Major impact on Tucumcari and Quay County economy

Employ:

1. 18 Full time faculty
2. 35 Adjunct
3. 32 Full time staff

Student Body

Traditional high school graduates

Non-traditional adults returning to school

Largest percentage of students from Northeast New Mexico, some from Texas.

Rodeo, Cowboy Arts, Wind Technology, and Paleontology draw from a wider circle

40-50% of population currently served include New Mexico correction students. 9 Facilities

Actions Since 2023

Completed 2022, 2023, and now 2024 Fiscal Year Audits

Completed Special Audit with Office of the State Auditor

Completed study by MGT (Higher Education Department directed study)

Able to see return of over \$1,000,000 in State Board of Finance and 2023 HB2 funds appropriated for Mesalands.

Additional Actions

HLC (Higher Learning Commission)

1. Placed on probation in 2023 due to financial status
2. Review team on campus today and tomorrow
3. Goal- Lift probationary status
4. Final determination- Jan/Feb 2026

Maintained staff

Added new positions as budget allows

Where are We Now?

Finance:

1. Fund balance is solid.
2. Fully staffed business office (some training still ongoing)
3. Eligible for additional funding

Personnel:

1. Staff has remained stable over the last 2 years
2. Cross training and planning for any changes

Programs:

1. Now able to focus on more needs of the community

Programs

Wind Tech Training

1. Later discussion

Paleontology

1. Later discussion

Fine Arts

1. One of if not the largest foundry/casting facilities in the southwest
2. Iron Pour- National and International participation

Programs (cont.)

Cowboy Arts

1. Silversmithing
2. Farrier
3. Animal Science
4. Metal working

Rodeo Program

1. Annually compete CNFR
2. Grand Canyon Region



New Programs

Nursing

1. Since December 2024, 9 graduates from the program
2. Since inception in 2023, only nursing program in the state to receive \$0 supplementary funding.
 - a. Received \$450,000 for expenses in FY25 and Fy26. \$250,000 RPSP funding beginning FY26
3. Looking to expand to Clayton, NM with additional cohort

CDL Training (Fall 2025)

1. Testing has continued over the last 2.5 years
2. Training will begin on receipt of \$300,000 appropriated in FY2026 HB2 funding for CDL/Wind equipment

New Programs (cont.)

CNA/Phlebotomy

1. Expansion and partnerships with area high schools
2. Pipeline for health careers and nursing program

Welding

1. Expansion and partnerships with area high schools

Future Programs:

1. Building Trades
 - a. Plumbing
 - b. Electrical
 - c. HVAC



Wind/Renewable Energy



Introducing the Instructors

Terrill Stowe- Over 15 years experience with Mesalands as an instructor

Nathaniel Alexander- 10 years experience in the industry working on Vestas,GE and Mitsubishi Turbines. Certified GWO/CPR Instructor with an Associate's of Applied Science in Wind Energy Technology from Mesalands Community College.

What Do We Offer

Three Different plans of studies:

- Occupational Certificate - consists of 1 Semester “16 weeks”, (15 Credit Hours)
- Associate of Applied Science Certificate – consists of 2 Semester “32 weeks”, (32.5 Credit Hours)
- Associate of Applied Science Degree – consists of 4 Semester “64 weeks”, (61.5 Credit Hours)

What Type Of Training Happens

- We offer a wide selection of classes to prepare students for the wind industry.
- The Full size 80 meter GE 1.5MW Ess tower gives us the ability to give students real world experience.
- A complete Nacelle and hub in the bay.
- Simulators for Electrical, Hydraulic, and Mechanical.
- Fully Functioning Solar System.
- Instructors with **Real World Experience** in the wind industry and teaching with a combined 33 years of experience.

Plans For The Future

NEW 6 week Solar Program

NEW 16 week Wind Energy program for corrections in Guadalupe County Correctional Facility (Santa Rosa, NM)

1. Plans to expand to other correctional facilities in New Mexico
2. Through IET and workforce funding

Success For The Students

1. Companies waiting for our graduates
 - a. Leeward Energy
 - b. Pattern
 - c. Next Era
 - d. Locally and nationally
2. Additional Training
 - a. Partnership with **Impact Wind**
 - b. GWO Certification Training
 - c. Advanced safety and rescue training
 - d. Workforce and credit bearing courses
3. ACP (American Clean Power)

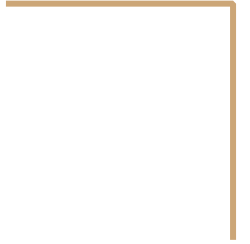
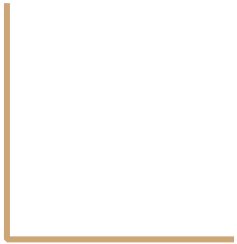
Mesalands Alumni

- At one point the wind Farm in **El Cabo, New Mexico** was Maintained by all **Mesalands Alumni**.
- Last Spring we had 7 students obtain jobs in the industry, 4 students went through **Impact Winds GWO training** and are currently working on the Sunzia Wind Farm - The largest wind farm in New Mexico and the 2nd largest in the nation.
- One of our alumni is currently the Site Lead at **Caprock Wind Farm for Leeward**

Wind Program Needs

1. Repowering existing turbine
 - a. Approximate cost-\$6,000,000
 - b. Replacing nacelle, blades, interior of technology of tower
2. Senator Heinrich
 - a. \$4,000,000 passed through committee
3. Presented to NM Capital Outlay/GO Bond Committee
 - a. Will take a mix of funding to achieve

Nursing Program



STUDY THE SCIENCE OF ART.
STUDY THE ART OF SCIENCE.
DEVELOP YOUR SENSES-
ESPECIALLY LEARN HOW TO SEE.
REALIZE THAT EVERYTHING
CONNECTS TO EVERYTHING ELSE.

Leonardo da Vinci

Associate of Applied Science in Nurs

The American Nurses Association (ANA) describes nursing as "a science and an art".

The "science" of nursing involves evidence-based practice, research, and scientific knowledge, while the "art" encompasses compassion, caring, human interaction, and the intuitive understanding of patient needs.

The Science of Nursing

- **Theoretical Framework:** The science of nursing is based on a strong theoretical framework, grounded in research and scientific understanding.
- **Evidence-Based Practice:** Nurses utilize scientific research, data, and knowledge to inform their decisions and improve patient outcomes.
- **Systematic Processes:** This aspect involves analytical and systematic processes to solve clinical problems and apply principles from sciences like biology and anatomy.

The Art of Nursing

- **Compassion and Caring:** The art of nursing is rooted in compassionate care, respect for human dignity, and a connection with patients.
- **Human Interaction:** This aspect includes effective communication, empathy, and the ability to provide assurance and comfort.
- **Intuition and Application:** Nurses use their intuition and apply their knowledge in a caring and mindful manner, making it a unique and individualized practice.

Concept-Based Nursing Education

- A concept-based nursing curriculum (CBC) organizes educational content around broad, overarching nursing concepts and their supporting "exemplars" (specific examples), rather than focusing on traditional medical systems or diagnoses.
- This approach promotes deep learning, critical thinking, and clinical reasoning by showing how key concepts, such as perfusion or mobility, apply across various patient conditions, populations, and lifespan stages.
- CBC is a student-centered, active learning model designed to help students transfer knowledge to new situations, better preparing them for the complexity and ever-changing nature of modern healthcare.

NCLEX

The National Council Licensure Examination (NCLEX) is a standardized, computer-based exam required by boards of nursing in the U.S., Canada, and Australia to determine if a candidate is prepared to begin practicing as an entry-level nurse.

Technology

- High Fidelity Simulation Manikins
- Medicatio



MCC Nursing Program

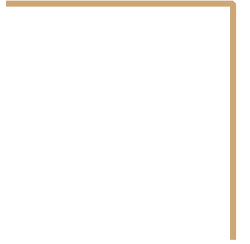
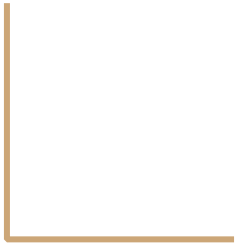
Program admitted first students January 2023

First cohort graduated December 2024

We have had 9 students graduate, all 9 have taken and passed the NCLEX exam. All nine have secured jobs as Registered Nurses.

We currently have 40 students enrolled in 4 levels. We expect to have 13 students graduate December 2025.

Paleontology



Introduction

Axel Hungerbuehler, Ph.D.

University of Tuebingen, Germany (B.Sc./M.Sc.)

University of Bristol, England, UK (Ph.D.)

Royal Ontario Museum, Toronto, Canada (research)

University of California Berkeley, CA (curation, research)

Texas Tech University, Lubbock, TX (research)

since 2003: Mesalands Community College, Tucumcari,
NM

AA degree in Natural Sciences (option

(almost) unique 2-years program in the Nation

1. 34 credit hours common core curriculum w. emphasis on biology and chemistry
2. 26 credit hours in 8 fields of study classes (5 of which unique in NM)
 - a. GEOL 1110 Physical Geology
 - b. GEOL 2110 Historical Geology
 - c. GEOL 2145 History of Life
 - d. GEOL 2155 Theory and Praxis of Museum Science
 - e. GEOL 2910/2920 Research in Natural Sciences I and II
 - f. GEOL 1320 Paleontology Field Discovery
 - g. GEOL 1998 Internship in Geology

GEOL 1990 Triassic Vertebrate Practicum (not mandatory)

AA degree in Natural Sciences (option

The Program “works” and is attractive because of three assets students do not find elsewhere:

1. Dinosaur Museum
2. Field work opportunities
3. Research opportunities

Dinosaur Museum

1. Biggest draw to Tucumcari next to Rt. 66 (in average 11,000/year)
2. Provides \$90,000 for the college per year in admissions and merchandise
3. Contains viewable lab inside the museum building
4. Museum is home to the world's largest collection of bronze skeletons and fossils. The bronze skeletons were created by Mesalands' staff and students at the College's own foundry.



The Dinosaur Museum and the Paleontology Program mutually depend on each other...

The Museum is the greatest asset of the Program

The Dinosaur Museum provides:

1. Facilities
 - a. Laboratory, collections, public galleries
2. Practical learning opportunities
 - a. Preparation
 - b. Collections work
 - c. Display design and construction
 - d. Public relations (guided tours)
3. Real job experience
 - a. Students are integrated into the operations of a working natural history museum from day one of their studies

The Dinosaur Museum and the Paleontology Program

mutually depend on each other...

The Paleontology Program provides:

1. Man power
 - a. About half of the “behind the scenes” work is provided by students (class work, paid work study, or extracurricular volunteers)
2. Knowledge
 - a. How to run a natural history museum (GEOL 2155 Theory and Praxis of Museum Science)
3. Displays and Collections
 - a. Material = fossils for collection and display
 - b. Laboratory
 - c. Research results

Field work

1. Four dig sites in the Upper Triassic of Quay County
2. Three annual Summer Field Classes:
 - a. GEOL 1320 Paleontology Field Discovery (June and July, 1 week each)
 - i. MCC program students (mandatory), science requirement college students, high school students, general public
 - b. GEOL 1310 Paleontology Field Expedition (June, 10 days)
 - i. in cooperation with Cottonwood Gulch Foundation, ABQ; high schools students recruited from all over the US
3. Extracurricular semester field work
 - a. two days scheduled per month on weekends, open to program students and GEOL classes students

Research

1. Embedded in the Paleontology Program
 - a. GEOL 2910/2920 Research classes
 - b. GEOL 1998 Internship
 - c. GEOL 1990 Triassic Vertebrate Practicum
2. Research cooperation with other institutions
 - a. Southern Connecticut State University (Dr. Jonathan Weinbaum)
 - b. Texas Tech University (Dr. Jeffrey Martz, Ryan Price, Mike Tenorio)
 - c. Virginia Tech University (Dr. Sterling Nesbitt, Isaac Pugh)