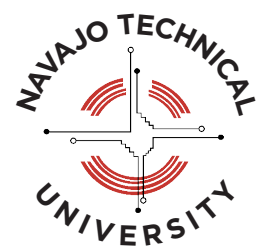


# RESILIENCE

THROUGH HIGHER EDUCATION



**2014-2015 ANNUAL REPORT**



[www.navajotech.edu](http://www.navajotech.edu)



## WHAT MADE THIS EARTH RED?

“What made this earth red? These rocks red? Was it the light from earth and sky to remind us at day’s end of the color of our births? Is it all the trails we took upon ourselves or that were forced upon us, beginning with our blood trails to Hwéeldi and back? Our fragile lives, tentative, brave, wavering through all the worlds we’ve traveled. And each time we arrived, the quickening of hearts.”

-Dr. Laura Tohe,  
Navajo Nation Poet Laureate  
from *Tséyi’: Deep in the Rock*

# RESILIENCE THROUGH LANGUAGE

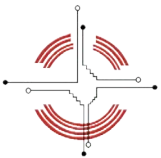
The Vice President of the Navajo Nation established the Navajo Poet Laureate program under NTU’s Bachelor of Fine Arts degree program in Creative Writing and New Media. The Poet Laureate serves a two-year term with the purpose of promoting the art of Navajo poetry in the Navajo Nation and throughout the world. In 2015 Dr. Laura Tohe was named Poet Laureate for her distinguished collection of work that includes poetry, an anthology of Native writers and an oral history.

*The theme of this report will address the resilience that Dr. Tohe speaks to in Tséyi’: Deep in the Rock - an award-winning poetry and photography book inspired by Canyon de Chelly.*

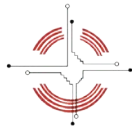




*Administrative  
Office Specialist  
major Ursula  
Williams was  
crowned the 2015-  
2016 Miss NTU.*

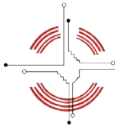


# TABLE OF CONTENTS



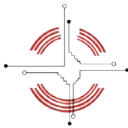
## **1. NITSÁHÁKEES**

- Welcome to Navajo Technical University
- NTU Administration
- An Intro to NTU
  - Mission
  - Vision
  - Community



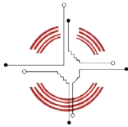
## **2. NAHAT'Á**

- Setting the Context
- Enrollment
- The Impact of NTU
  - Graduation Data
  - Economic Impact
  - Timeline of Programs



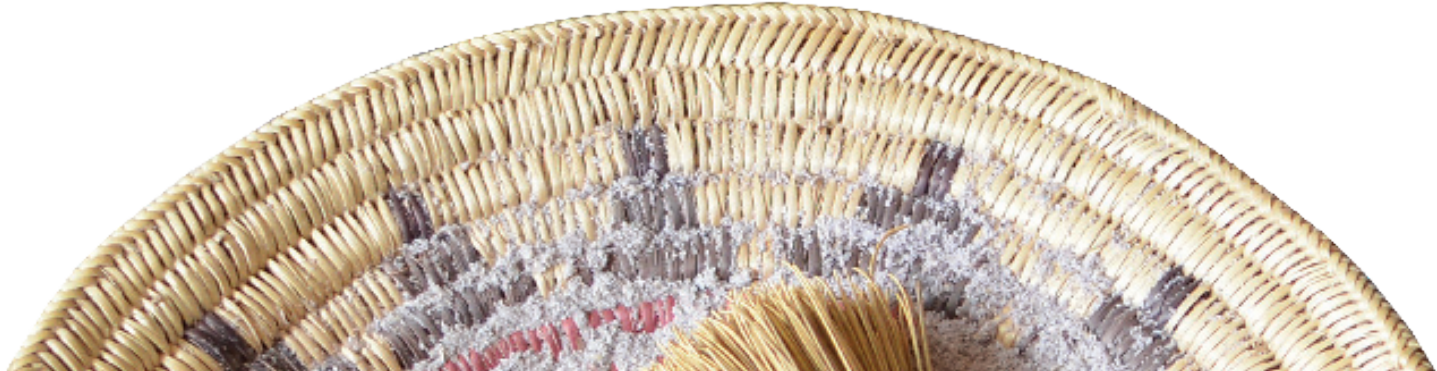
## **3. IINÁ**

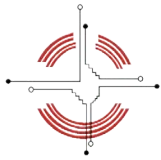
- New Construction & Growth
- Emphasizing STEM Education



## **4. SIH HASIN**

- Touting Student Success
- Building Community Capacity
- A Focus on the Future





## **WELCOME TO NAVAJO TECHNICAL UNIVERSITY**

Navajo Technical University (NTU) is a special place. Its academic programs are as high in quality as those of other major United States universities. It has been ranked within the top 10% of community colleges by the Aspen Institute and U.S. Department of Education in the past. Quality programs, taught by distinguished faculty, can help students achieve careers in fields such as engineering, health, education, manufacturing, construction trades, automotive technology, veterinary sciences, culinary arts, math, professional drivers, creative writing, and environmental science. Whenever students do the work to earn such careers, they improve the economic wellbeing of not only their families, but also the wellbeing of the entire Navajo Nation.

The key to NTU is that it is a Navajo university. There is both strength and beauty in our Diné people. Our environment with its mountains, lakes, unusual rock formations, mesas, high deserts, and canyons has within it the ancient songs, prayers, and dances of our people and a culture that values the beauty of each individual.

At NTU we work hard to strengthen culture through our Diné Culture, Language, and Leadership programs and the application of the Diné Philosophy of Education. We also work hard to honor our students as individuals. We encourage them to become a national champion in Culinary Arts, mathematics, or film-making. We work with major agencies like the Navajo Nation, the National Aeronautics and Space Administration (NASA), and Arizona Public Power to provide a variety of work experiences and internships. We try hard to find money for scholarships that help our students succeed at the university.

The idea of success, of achieving individual, family, and Navajo Nation dreams, is built into our student research programs, our research days that this year attracted nationally known figures from both NASA and the National Science Foundation (NSF), and our Veterinary Clinic's outreach to farmers and ranchers throughout Navajo. There are simply a lot of things going on, sports events, cultural events, speakers, performances, competitions, that involve students whether they are attending in Crownpoint, New Mexico or Chinle or Teec Nos Pos in Arizona.

This Annual Report is focused on students and student success as well as some of the activities that are always happening at NTU. The truth is, NTU is a special place, and the students, faculty, administrators, staff, and Board of Regents are special people. NTU is the heart of endless possibilities.

Please explore the following report in order to gain a better understanding of NTU and its impact on the Navajo Nation and the region. If you'd like more information please call 505.786.4100 or visit our website at [www.navajotech.edu](http://www.navajotech.edu).



## NTU BOARD OF REGENTS



The NTU Board of Regents is to help guide NTU in fulfilling its mission and vision with respect to the community and the people it serves. NTU's Board of Regents is composed of six members - five representing each agency of the Navajo Nation and the sixth representing the Student Senate President.

- Tom Platero, Central Agency, (Chairperson)
- Delores Greyeyes, Northern Agency (Vice Chair)
- Roselyn John, Eastern Agency (Secretary-Treasurer)
- Dr. Carolyn Morris, Western Agency (member)
- Harry Claw, Chinle Agency (member)
- Derrick Lee, Student Senate President (member)

## PRESIDENT DR. ELMER J. GUY

Dr. Elmer J. Guy has been with Navajo Technical University for over 15 years - serving the past ten years as President. Dr. Guy began his tenure with NTU as the Dean of Instruction in 1999 before eventually serving as Vice President in 2004. Under Dr. Guy's leadership, NTU has grown into a national leader in tribal education that has remained rooted in Diné culture, language, and identity.

Dr. Guy holds a Ph.D. from the University of Arizona and a M.R.A. from the University of San Francisco.

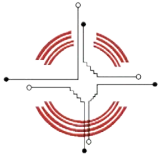
## NTU STUDENT SENATE

Student Senate is crucial to the success of NTU because it serves as the voice of the student body. This year NTU's Student Senate participated in the 2nd Annual NM LEADS conference to promote student collaboration amongst the higher education institutions in New Mexico. They also traveled to Washington D.C. for a national leadership conference to help develop their skills as leaders on campus.



*Pictured from l-r: Juanita Tom - Student Senate Advisor; Randall Allen - Residential Senator; Ronald Gene - Master of Arms; Yvonne Platero - Treasurer; Ursula Williams - Secretary; Ariel Jones - Vice President; Jarvis Draper - Chinle Senator; Antonio Tsosie - Chinle Student Senate Advisor.*





## NTU 101: AN INTRO TO NAVAJO TECHNICAL UNIVERSITY

Navajo Technical University continued its record of growth and development through 2014-15. There was a ten-year record of enrollment growth; the campus in Crownpoint, New Mexico continues to develop, plans were moved forward for a campus in Chinle, Arizona, and new degree programs were developed. The number of graduates from certificate, associate, baccalaureate, and master degree programs continued to increase. NTU is operating a campus in Crownpoint, New Mexico and instructional sites in Chinle and Teec Nos Pos, Arizona and Alamo, New Mexico.

### MISSION STATEMENT

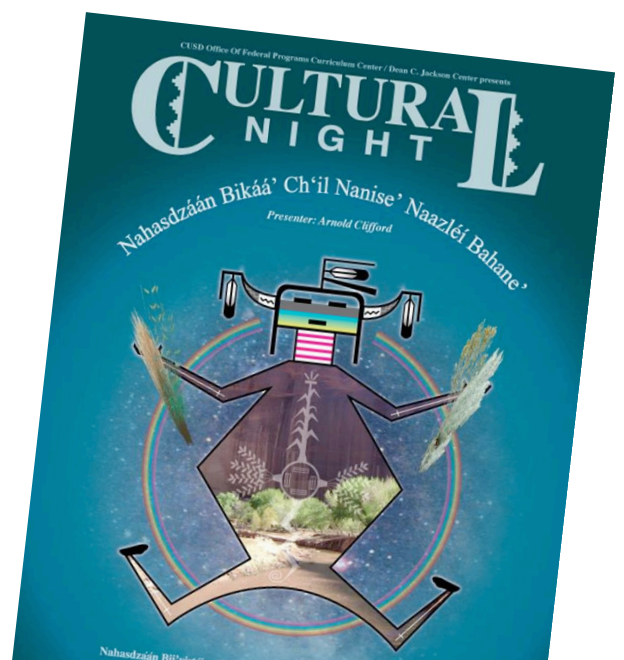
Navajo Technical University's mission is to provide university readiness programs, certificates, associate, baccalaureate, and graduate degrees. Students, faculty, and staff will provide value to the Diné community through research, community engagement, service learning, and activities designed to foster 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, Iína, Siihasin.



*In serving the community, NTU hosts or participates in events that promote culture and heritage such as Song & Dance or speaking series on culture.*



*NTU students sing during a Hand Games tournament against the Institute of American Indian Art at the 2015 AIHEC student conference in Albuquerque, NM.*





## VISION

The vision of NTU is to educate Navajo individuals; utilize state-of-the-art technology; and to enhance desirable character traits of integrity, self-discipline, loyalty, and respect which give the Navajo people hope, courage, and the resiliency essential to their survival as a people, using the strengths inherent in the Navajo cultural values and traditions.

## COMMUNITY ENGAGEMENT

As an institution of the Navajo Nation, it is NTU's obligation to engage the community for purpose of self improvement and providing a place where people can engage in social interaction. In August of 2015, NTU held a community event that blended traditional and contemporary expressions of art in order to promote intergenerational understanding. The *Empowerment Through Art & Education* event hosted: Navajo Song & Dance (left), Drums of Summer, a 1-on-1 BBoy contest (below), a poetry slam and a stand-up comedy routine by entertainer Pax Harvey.



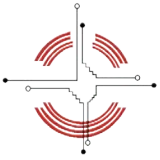
*Trumane Smith of Gallup, NM break dances in moccasins at NTU's Empowerment Through Art & Education Community Event.*

# RESILIENCE

THROUGH CULTURE & IDENTITY



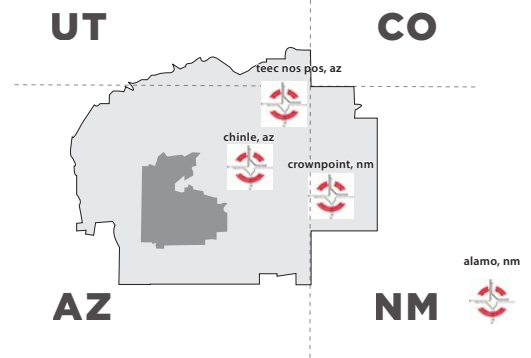
The foundation of NTU's identity as a higher education institution of the Navajo Nation is rooted in the Diné Philosophy of Education. The philosophy of Navajo Technical University is Nistáhákees, Nahatá, Iina, Siihasin. NTU believes that every student has the innate ability and intelligence to acquire academic and technical skills. Students have knowledge about their abilities and skills to enhance their personal, social, economic and cultural values. A disciplined learning environment, with innovative and viable community-based academic and vocational curricula, will produce a competent, educated, and self-reliant participant of the Navajo Nation in the world of work.



## SETTING THE CONTEXT

The students that attend NTU come from an economic landscape that features a 23% unemployment rate and a poverty rate near 42%. As a result, many of the people and the communities of which they reside are trapped in cycles of poverty that have limited their ability to access the resources needed in order to sustain a healthy way of life. NTU has taken the lead in reversing such trends with both its academic programs and its community efforts - which is evident in the number of people investing their time and money to obtain an education close to home. As NTU's infrastructure expands, enrollment is expected to increase exponentially.

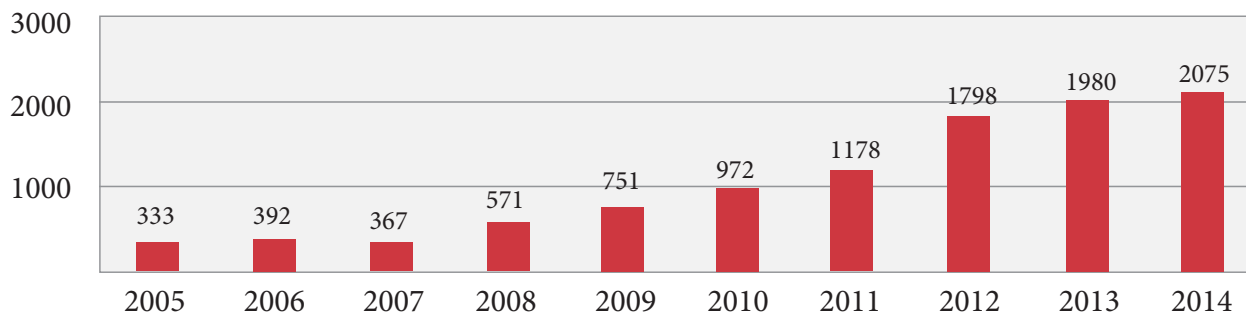
### The Navajo Nation



*The Navajo Nation covers over 27,000 square miles, occupying portions of Arizona, New Mexico and Utah.*

## TEN YEAR ENROLLMENT GROWTH

Navajo Technical University has become the largest tribal college/university in the United States. The numbers below are based upon fall enrollment.







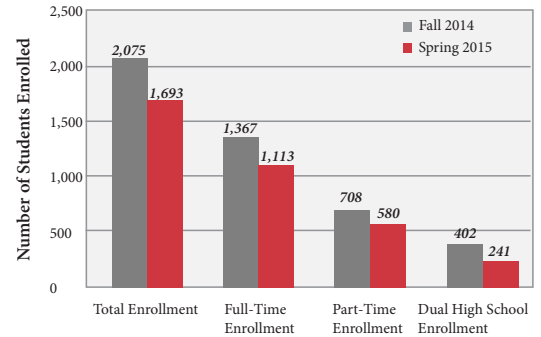
U.S. Senator Martin Heinrich visited NTU in 2015 to observe work NTU has been contributing to STEM fields - such as the digital manufacturing program and the collaborations they've been forging with agencies such as NASA and Boeing. "It's inspiring to see what the students are doing," said Senator Heinrich about his visit. "They're doing things that would have never been possible when I went to school."



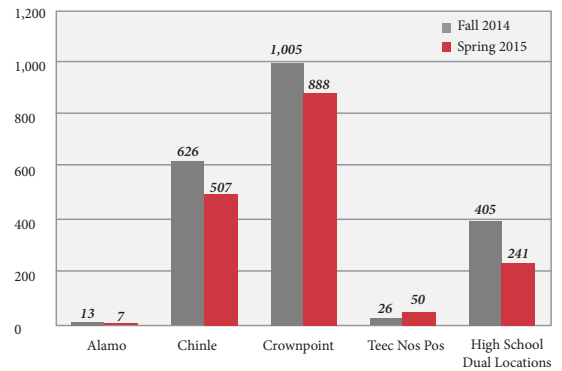
NTU's Teec Nos Pos site's first graduates Kaye L. Larry, Larry Johnson, Quintin D. Joe, and Dale Blackmountain (pictured) received their certificates in carpentry at NTU's spring 2015 commencement. Several of the students have since transitioned to the main campus and are continuing their education in advanced programs.

## ENROLLMENT DATA

NTU 2014-2015 Academic Year Enrollment

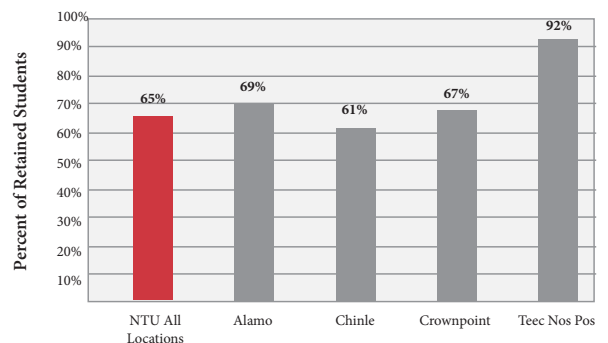


NTU 2014-2015 Enrollment by Location

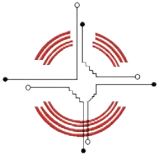


Enrollments typically fall from the fall to the spring semester. Note that the off site instructional site at Alamo is operating successfully.

NTU AY 1415 Semester-to-Semester Retention Rates



Retention rates continue to be high compared to the 51% average for other colleges and universities across the United States.



## THE IMPACT OF NAVAJO TECHNICAL UNIVERSITY

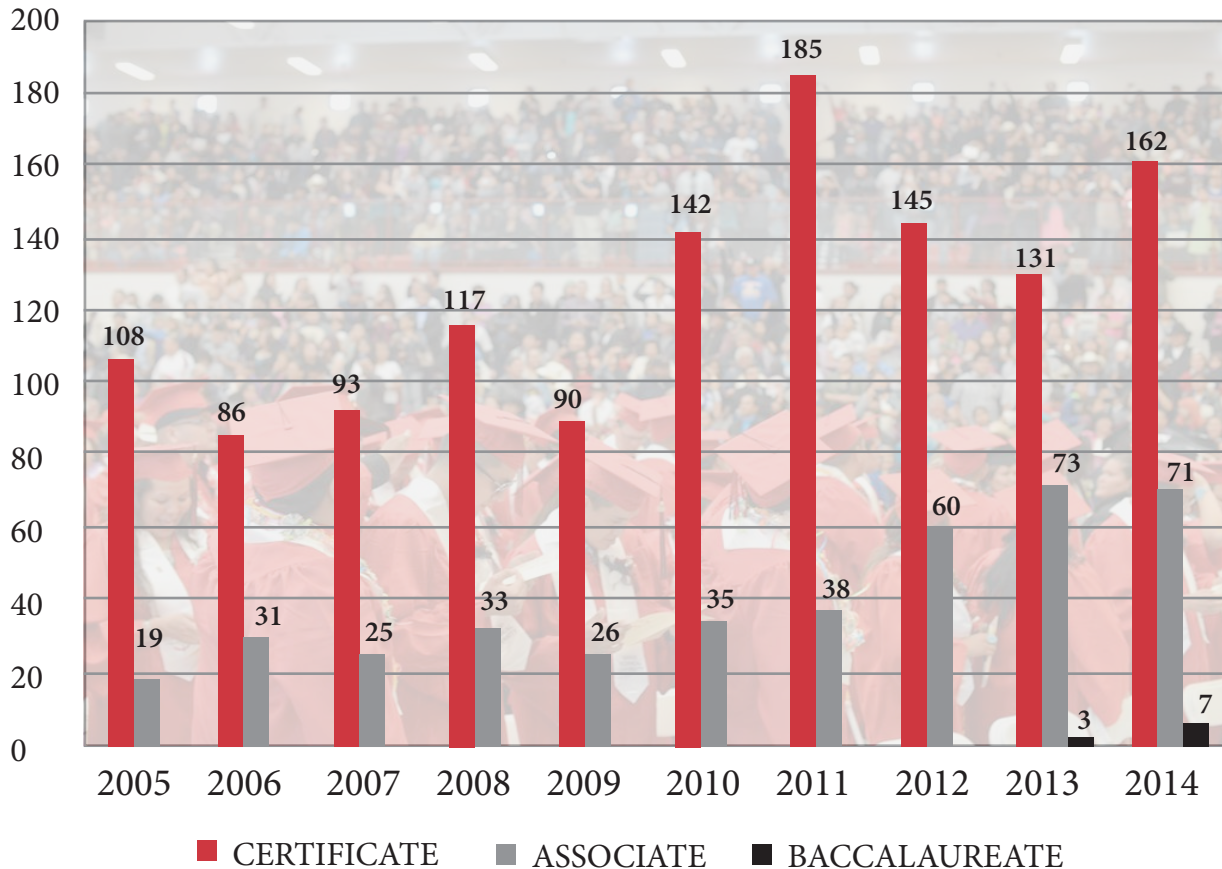
NTU creates value in many ways. The university plays a key role in helping students increase their employability and achieve their individual potential. It provides students with the skills they need to impact their families and communities. Further, it supplies an environment for students to meet new people, increase their self-confidence, and promote their overall health and well-being.

NTU improves the lives of students and the regional economy. The university serves a range of industries in the Navajo Nation, including tribal government, supports local businesses, and benefits society throughout the Navajo Nation with a start toward an improved quality of life.

### GRADUATION DATA

NTU, from 2005-2014, graduated 1,819 students. The students that have graduated per year follow:

#### GRADUATES PER YEAR





## EARNING ADVANCED DEGREES



In 2015, NTU graduated 13 individuals with a bachelor's degree across five different STEM programs. In total, NTU has graduated 26 students with a baccalaureate degree since 2013 with the majority now employed or continuing their education in graduate programs.

## ALUMNI SPOTLIGHT: Jodonna John

Energy systems major Jodonna John of Whiteclay, Ariz. graduated from NTU at the winter 2015 commencement and was awarded with the divisional director for renewable energy position with NTUA. Ms. John took full advantage of her time at Navajo Technical University where she was able to earn an internship at the Sandia National Laboratories gaining meaningful hands-on experience while still a student.



# RESILIENCE

THROUGH ECONOMIC OPPORTUNITY



Economic Modeling Specialists International, a firm that does economic impact studies and provides labor market data to educational institutions, including colleges and universities, completed a study on the economic impact of NTU. The study has too many findings to present here, but a number of the study's findings stand out:

### NTU is an important employer.

- In 2013-14 NTU employed 567 full-time and part-time faculty and staff, 85% of who lived in the Navajo Nation.
- Payroll was \$11,000,000, much of which was spent in McKinley and Navajo Counties in New Mexico and Arizona.

### NTU has a significant economic impact on the Navajo Nation and the Region

- The university spent \$15.5 million to cover its various expenses.
- NTU added \$12.8 million to the region during the analysis year as a result of day-to-day operations and supplies.

**The total economic impact of NTU was \$21.4 million.**

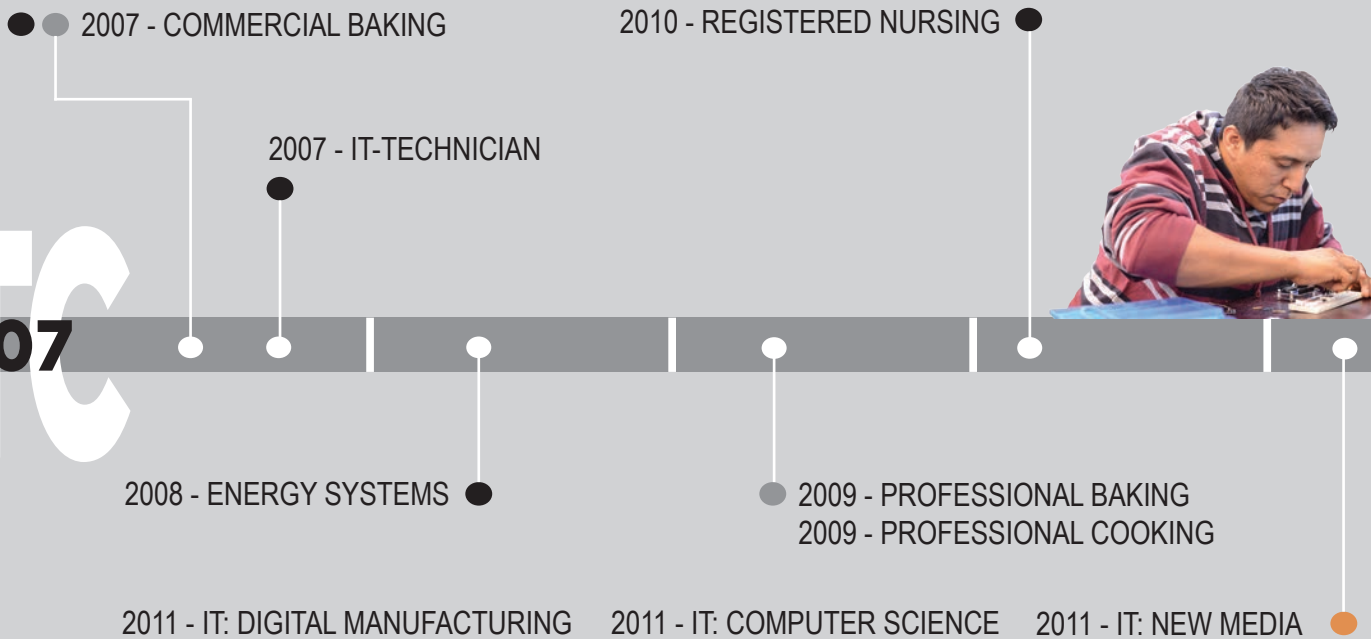


## A TIMELINE OF NTU'S PROGRAM DEVELOPMENT

During 2014/15 NTU continued to develop new degrees. The record of degree development over the last ten years has been extraordinary. The faculty, the Board of Regents, and administration have all worked hard to develop an outstanding record of accomplishment. All of these certificates and degrees have been accepted for accreditation by the Higher Learning Commission. Based on the mission, vision, and values of the university and its strategic priorities, NTU has Academic Master Planning: aims to address and prioritize the educational needs and plans of the University.

# NTC

2007



*In May 2015, NTU graduated its first students in the IT-Digital Manufacturing and IT-New Media programs. Both program are expected to graduate several more in the next two semesters.*



## LEGEND: A KEY TO OUR DEGREES

- CERTIFICATE      ● BACCALAUREATE
- ASSOCIATE      ● MASTER'S

*Chef Gail Shackleford discusses cake decoration with Baking II students. Shackleford joined NTU's staff after the Commercial Baking program became accredited under the American Culinary Federation (ACF).*



2013 - BUILDING INFORMATION MODELING ●  
2013 - MATHEMATICS

2013 - DINÉ CULTURE, LANGUAGE & LEADERSHIP ●

2013 - ELECTRICAL ENGINEERING

2013 - CREATIVE WRITING & NEW MEDIA ●

2014 - EARLY CHILDHOOD MULTICULTURAL EDUCATION ●



2015 - PRE-ENGINEERING ●

# NTU

## 2016

2012 - GENERAL EDUCATION ●

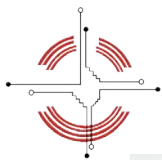
● 2012 - INDUSTRIAL ENGINEERING  
2012 - ENVIRONMENTAL SCIENCE & NATURAL RESOURCES  
2012 - DINÉ CULTURE, LANGUAGE & LEADERSHIP

● 2012 - INDUSTRIAL MAINTENANCE & OPERATIONS  
2012 - TEXTILE AND WEAVING  
2012 - MATHEMATICS

● 2015 - AUTOMOTIVE TECHNOLOGY  
2015 - CHEMICAL ENGINEERING

*While NTU has gained national attention for its focus on STEM education, our foundation is in Diné Culture, Language & Leadership. Cultural courses such as weaving are offered at NTU.*





## NEW CONSTRUCTION AND GROWTH AT NTU



Construction projects at NTU have been happening at a rapid pace thanks to state, federal and tribal funds. The second phase of NTU's Comprehensive Wellness Center, a Student Union, is underway. NTU also has several other projects in progress: a radio station, an extension to the Crownpoint site's library, and a new campus in Chinle, AZ. NTU aims to establish, support and maintain the capital and technical infrastructure of its campus, while managing resources responsibly, efficiently, and with accountability, operating and maintaining our buildings, grounds, and utilities in a clean, safe, and responsible manner.

## DIALED IN TO A NEW RADIO STATION



Navajo has a new radio station! NTU now has authority to operate the radio station at Crownpoint! Found at 107.3, KCZY, on the radio dial, the FM Broadcast Station License was granted on 10/22/2015 allowing for NTU's Tribal Priority Radio Station. Envisioned as a vehicle for students in the New Media and Creative Writing and New Media bachelor degree programs to have both an outlet for their creative work and a practicum to learn skills related to their degrees, the new station will broadcast the latest tunes and up-to-date news.



## LIBRARY EXTENSION & LANDSCAPE



As NTU grows the number of advanced degrees it offers it must also grow its infrastructure. One of the main projects currently taking place on the Crownpoint campus is an extension of the library. The two-story expansion will allow for more study and research space. In addition to the library, NTU has also made several improvements across campus including various implementations of green technology, landscaping for purposes of campus beautification, and several small-scale interventions to address seasonal flooding. It's one of NTU's strategic goals to develop plans and resources to improve all open space, including roadways and parking, to address the environmental and social concerns of the university and each project addresses these concerns.



*A rendering of the library by Merge Architectural Group, LLC.*

# RESILIENCE

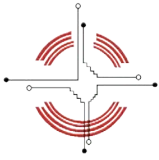
THROUGH COMMUNITY PLANNING

## A NEW CAMPUS IN CHINLE



*Receiving a briefing on a new NTU campus at Chinle are, L to R: President Dr. Elmer J. Guy, Associate Dean at the Chinle Campus, Priscilla Leonard; CEO/President of Indigenous Design Studio, Tamarah Begay; Site Director at Chinle, Arlena Benallie; NTU CFO Anthony Major; and Intern Architect for Indigenous Design Studio, Theodore Edaakie!*

For over ten years, NTU has been pushing for a campus to serve students in the Chinle region and in 2015 the work started! The design is being carried out by Indigenous Design Studio + Architecture, LLC, a Navajo-owned firm that specializes in place based design. The new campus is expected to include a classroom space, and later on, family and residential housing, a library, a cafeteria and several other resources to serve the students. With a new campus in Chinle, NTU will be able to transfer many of its baccalaureate degree programs into Arizona for students to access. As NTU does, it will develop comprehensive plans and resources for the Chinle campus and services.



## AN EMPHASIS ON STEM EDUCATION

Navajo Technical University is proud to have a national reputation as a STEM school. NTU has leveraged its reputation to provide advanced student-centered work in science, technology and engineering. We have partnered with national agencies and local institutions in producing meaningful work. From robotics to laser scanning to operating a SEM microscope, NTU provides students with invaluable experience with cutting-edge technology that will have an impact on the Navajo Nation and at the national level.

## EXPLORING PATHWAYS TO STEM EDUCATION THROUGH ONLINE LEARNING

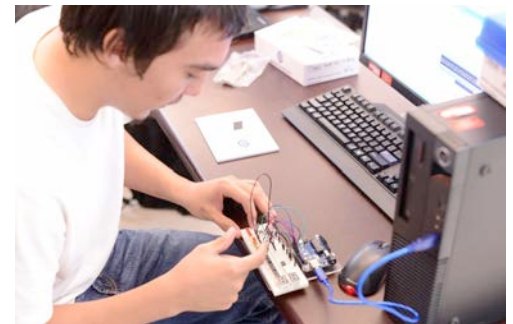
In September 2015, NTU was awarded a five-year National Science Foundation grant totaling \$2,497,230 to support efforts to increase access to careers in Science, Technology, Engineering and Mathematics (STEM) by pairing dual credit opportunities for students with online education and pre engineering coursework and instruction.

The Navajo Technical University Pathways to STEM Careers Project will seek collaboration with local high schools to offer a Pre Engineering course that could be taken for both high school and college credit.

The course will be offered online, so high school students or any interested adult with a high school diploma may begin the process towards earning a degree in NTU's Bachelor of Science degree program in Electrical Engineering.

According to electrical engineering instructor Dr. Peter Romine, as part of the grant's requirements, NTU will be researching methods and obstacles in the area of online education and identifying effective solutions for carrying out the dual credit program over an extended period of time.

High schools involved with the project will begin in New Mexico where dual credit agreements are currently in place, but NTU has already begun working with several high schools in Arizona to extend the program's reach.



# RESILIENCE

THROUGH STUDENT INNOVATION



## 3D PRINTING AND MODELING FOR NASA

For over ten years Navajo Technical University has had a long-standing relationship with NASA where students provide service-learning projects through NTU's Bachelor of Applied Science degree in Digital Manufacturing and Associate degree in Building Information Modeling. This year, NTU extended that collaboration by converting files of the Vesta Astroid into a 3D model that could be used for demonstration and education purposes. The model took 21-hours to produce and 2.5 hours to depowder.





## ENGINEERING ADVISORY BOARD

The NTU Engineering Board was established to make recommendations and to give advice on NTU's various Engineering programs. Roles of the Board include: helping in revising engineering curriculum; suggesting time frames and priorities for implementation of plans; determining community needs; reviewing performance objectives; and advising on changes in industry standards and new technology. NTU's Engineering Board consists of: Dr. Phil Pohl and Dr. Stan Atcity of the Sandia National Laboratories; Arvin Trujillo of APS Power Plant; Calvin Pohawpatchoko, Jr., a Ph.D. Candidate at the University of Colorado; Dr. Gaurav Rajen of Agave Energy Corp.; Dr. Taku Ide of Koveva Ltd.; and Steve Grey of Lawrence Livermore National Laboratory.



## STUDENTS PRESENT IN WASHINGTON D.C.

An exciting collaboration between electrical engineering major Hansen Tapaha and digital manufacturing major Jaron Edsitty (pictured to the right) produced a homemade laser scanner. The project was presented at the National Maker Faire in Washington D.C. to Director John P. Holdren, Assistant to the President for Science and Technology and Director of the White House Office of Science and Technology Policy. The Maker Faire is a national gathering of tech enthusiasts who come together over innovation and design.

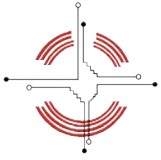
## NTU GRADUATES FIRST ENGINEER



*Dr. Joan Ferrini-Mundy, Assistant Director of the National Science Foundation for Education and Human Resources, embraces Fayette Clawson, the first student to receive an Engineering degree from Navajo Technical University.*

Fayette Clawson of Farmington, NM became the first graduate of Navajo Technical University's Industrial Engineering program in December 2015 at the Chinle Community Center. The program was developed in 2012 due to a high demand for engineers in the Four Corners Region and throughout the country.





## TOUTING THE SUCCESS OF NTU STUDENTS

### NATIONAL RECOGNITION FOR ACF-CERTIFIED SUS CHEF DEXTER DALE



In a year that has included winning a Gold medal at the National SkillsUSA competition in Louisville, KY and serving as sous chef to Chef Felecia Cocotzin Ruiz at the Idyllwild Arts Academy Native American Cook-Off in CA (pictured), Dexter Dale passed the practical certification exam of the American Culinary Federation (ACF) on his way to becoming an ACF Certified Sous Chef! The ACF is the largest professional chefs organization in North America. “I want to be someone the other kids can look up to,” explained Dale. “A lot of our children come from broken homes, alcoholism and abuse. I want them to know you can accomplish whatever you want, no matter what you been through.

### STUDENT ORGANIZATION TOUTS SKILLS NATIONALLY, DONATES TIME LOCALLY



NTU competed in 19 different categories at SkillsUSA’s annual national conference and received a silver and bronze medal in addition to Dexter Dale’s gold (see above) – which was NTU’s third gold national medal since 2011. NTU received the silver medal in Career Pathways and the bronze medal in the Health Knowledge Bowl (left). When not competing, the SkillsUSA organization provides community service to the local area by hosting coat drives, volunteering at the Crownpoint elder center (pictured top right), cooking for a holiday events for St. Bonaventure Mission School and other impactful activity.



*Students Frank Peralto and Rotasha Nez help at a thanksgiving dinner at the Elders Center in Crownpoint. Both Peralto and Nez are culinary arts students who used the volunteering opportunity to apply their education in helping cook for the community.*



## NTU ATHLETIC EXCELLENCE



The NTU Archery Team traveled to Salt Lake City, UT for the 2015 US Collegiate Archery Indoor National Championship and fared well. Tex Etsitty placed 3rd place in the Men's Bowhunter division, Kathleen Mariano placed 2nd place in the Women's division, and Filiberto Vecenti placed FIRST in Men's Recurve.



The NTU Rodeo Team had a wild ride this season after missing the Fall semester due to coaching turnover. In spite of the time off, athletes came on strong in the spring with bullrider Archie Becenti, Jr. and team roper Benji Sam winning events at the Cochise College Rodeo in Douglas, AZ.

# RESILIENCE

THROUGH COLLABORATION

## WORLD INDIGENOUS GAMES

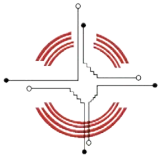


From October 23 - November 1st, 2015, NTU students Dwight Carlston and Felexia Chischilly participated in the World Indigenous Games in Palmas, Brazil. The event welcomed more than 1,800 indigenous people from 23 countries.

The students were able to attend the event representing the United States after applying through AIHEC. Both students ran in the games, which also included competitions in archery, spear throwing, a 100 meter race, a barefoot race, swimming, canoeing, and a tug of war between nations.

*Environmental Science and Natural Resources major Dwight Carlston of Falcon's Nest, NM participated in the World Indigenous Games through AIHEC in Palmas, Brazil.*



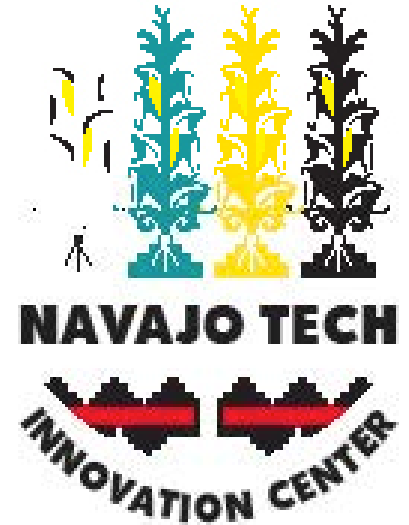


## BUILDING COMMUNITY CAPACITY

### ENHANCING OPPORTUNITIES FOR ENTREPRENEURS

One of NTU's most important roles is to further Navajo Nation economic development. In December 2015 the Navajo Tech Innovation Center was opened, becoming the sixth certified incubator in the state - the only one Native American controlled. The incubator is designed to support the launch, growth, stabilization and long-term success of business enterprises of the Navajo people.

Navajo entrepreneurs becoming involved in the Innovation Center have access to management guidance, technical assistance, networking opportunities and consulting tailored to growing businesses. Businesses that utilize the Innovation Center also have access to appropriate rental space, shared basic business services, and shared tech support services.



Partners with the NTU Innovation Center include: Navajo Nation Economic Development, State of New Mexico Economic Development, University of New Mexico - Gallup Branch, Gallup-McKinley County Chamber of Commerce, and the City of Gallup.

### VET TECH PROGRAM CONTINUES SERVICE-LEARNING WORK IN THE COMMUNITY



Within the Navajo Nation, there are roughly 271,000 livestock including sheep, cattle, goats and horses. NTU's A.A.S. degree in Veterinary Technology utilizes its Vet Teaching Hospital to help services the animals of the 33,000 residents who belong to 32 chapters of the Eastern Agency. The Vet Hospital provides both small and large animal services and specializes in wellness and preventative medicine; pet nutrition;



## COMMUNITY ENGAGEMENT

Providing space for the community to interact and engage with one another is a big component of NTU. Whether by hosting events on campus like the annual Domestic Violence Awareness balloon release (right) or going out into the public with the Culinary Arts program's healthy cooking initiative (below), NTU encourages interaction with the community in order to foster a collective identity based on social support.



*Graduate and current NTU employee JD Kinlacheeny provides a healthy cooking demonstration for high school students in efforts to improve health on the Navajo Nation.*



*NTU participated in Domestic Violence Month with a week of awareness activities including a balloon release and presentations by singer Radmilla Cody and comedian/motivational speaker Kasey Nicholson.*

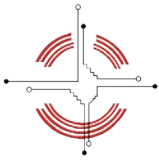
consultation; outpatient services; emergencies; euthanasia and surgery; dental; and more. The Hospital also provides in-house laboratory and diagnostic procedures that includes: urinalysis; fecal exams; coagulation panel; heartworm tests; parvo virus antigen tests; cytology; tonometry; and blood pressure.

Outside the Vet Hospital, the Vet Tech program volunteered in the Pinehill/

Ramah and at the Alamo Communities by providing vet services. The program also conducted research on the "Characterization of Sheep Herd Health Status in Eastern Navajo," and "Liver Toxic Plant Effects on Livestock of Eastern Navajo." Other projects the program engaged in included: an equine 1st Aid Classes and Workshop, a Cattle Growers Conference, and Diné Youth Equine Safety Program.



*A Vet Tech student checks vitals of a community member's dogs in Alamo, NM. NTU held a one-day event for the community where the Vet Tech program provided vet services.*



## A FOCUS ON THE FUTURE

### CULINARY/BAKING PROGRAMS SOLIDIFY PRESTIGE WITH ACF-ACCREDITATION

In 2015 both NTU's Culinary Arts and Baking programs were granted accreditation by the American Culinary Federation (ACF), solidifying NTU as the premier institution in the Southwest to obtain an education in culinary arts and baking. Both programs will be crucial moving forth as NTU is

making it a strategic priority to promote wellness for the whole person - allowing students and staff an environment that supports healthy eating and exercise.

To back this up, NTU introduced several healthy food options in the food services programs and has continued to coordinate campus gardening projects. The culinary arts and baking programs have also begun hosting healthy cooking and eating workshops for students and the community and have hired ACF-accredited baking instructor Gail Shackelford (pictured left) to help develop the baking program.

The ACF is the culinary leader in



offering educational resources, training, apprenticeship and programmatic accreditation designed to enhance professional growth for all chefs and pastry chefs. A benefit for becoming accredited through the ACF involves increased public trust ensured through: established standards; accountability and credibility; and up-to-date and current practices.



# RESILIENCE

THROUGH YOUTH DEVELOPMENT



### TAKING THE LEAD IN EARLY EDUCATION

A year into its operation, NTU's Bachelor of Science degree program in Early Childhood Multicultural Education has assumed the responsibility of taking ownership of youth education and engagement. In October of 2015, NTU hosted the Navajo Nation Teacher Education Consortium to discuss the future of education on the Navajo Nation. NTU also went into partnership with Navajo Head Start in efforts to help Head Start employees obtain advanced degrees close to home. At the winter 2015 commencement, NTU graduated its first six students in the B.S. degree program.

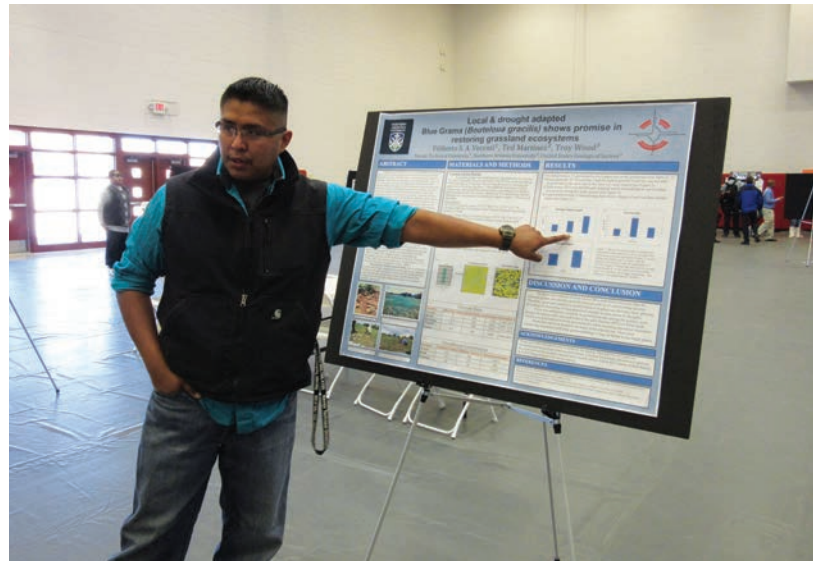


## SETTING INDUSTRY STANDARDS

On September 29, 2015 NTU was awarded an Advanced Technologies in Education (ATE) grant from NSF in the amount of \$895,618 for Dimensional Metrology Certification of students. This grant is to support the engineering and engineering technology degree programs in the area of dimensional measurement systems and application. NTU will create a certification program and process for the Faro Laser Scanner (pictured below); Faro Laser Tracker (portable CMM); Faro TrackerArm (portable CMM); and Structured Light Scanner as well as Geometric Dimensioning and Tolerancing test preparation for the Technologist level.



## COMPETITION PROMOTES RESEARCH



NTU has continued its annual research day to promote student research across its various programs of study. This year, the event extended participation to local youth who presented along with college students. Environmental Science major Filiberto Vecenti (pictured above) placed first in the competition for his work on local and drought adapted Blue Grama and its possible impact on restoring grassland ecosystems on the Navajo Nation. The top three finishers of the competition were awarded a certificate.



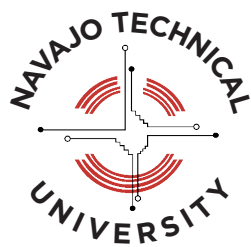
*The Navajo Nation Teacher Education Consortium was held on campus in Crownpoint where Dr. Tommy Lewis, Navajo Nation Education Superintendent, discussed language fluency among students.*



*Navajo Head Start employee Miranda Billie gives a presentation in a summer Intro to Computers course as part of a collaboration with Navajo Head Start to help employees obtain advanced degrees.*



*NTU hired a full-time Child Care Center Manager for its Crownpoint site and has been pairing the Center with NTU's B.Sc. program in Early Childhood Education to provide hands-on training for students.*



Endless Possibility.