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70%
DC WOMEN STEM ENROLLMENT
SPRING 2018.
source: Diné College OIPR

UPCOMING EVENTS

CLUBS
AISES
ANIMAL CLUB
GREEN CLUB

SPEAKER SERIES
Spring 2019 Dates
EVERY WEDNESDAY
Meeting in GCB 110
12-1PM
TSAILE CAMPUS
Coffee and Cookies

SCIENCE CONFERENCE
Northern Navajo Hantavirus
Conference
Welcome to Diné College, to all STEM students, and to everyone. My name is James Tutt. I am Diné College School Dean of STEM. I am from Oak Spring, Arizona, which is 8 miles north of Red Valley Chapter House. I am Táchii'nii clan, Red Running Into the Water People, and I am born for Áshiihí clan, Salt People.

What is STEM? The way I look at it, it is everything we deal with on a daily basis. The areas we deal with are Science, Technology, Engineering, and Mathematics. Science, we see it every day all around us. Technology is what really impacts us in the way we live. Old phones that we use to have versus smartphones, which can make our lives better sometimes. Engineering is where we see improvement of roads, buildings, bridges, around us every day. We ride on the roads. We drive on top and under bridges. Mathematics, we use it in our daily lives in terms of computing, going to the bank or grocery stores. With all four areas, we need to take this, think about it, how it will change our lives.

Study hard to see end results to help ourselves, family, and Navajo Nation. I wish you well during your studies.

-- James Tutt
DR. Shazia Tabassum HAKIM

Tuba City Center Biology Faculty, Dr. Hakim is making science a fun, interesting learning experience for her students. She brought on a poster presentation on Health Care Professions hosted by her Anatomy & Physiology students, contributes excellent leadership and teamwork to all centers and campuses, School of STEM, and recently was on a move to the University of Wisconsin focusing on the Tiny Earth research project. She is a motivated professional who not only loves what she does but is also compassionate with all, everything you want to know about her, please continue reading.

Professor Dr. Shazia Tabassum Hakim, born and raised in Karachi, Pakistan and moved to Canada, a Canadian of Pakistani origin who is now part of Diné College community as a Science Faculty.

With educational certifications and qualifications in Microbiology, Medical Laboratory Technology, Clinical Research, Laboratory Biosafety and Leadership expectations; she is a Registered & Specialist Microbiologist of Canadian College of Microbiologists, has 15+ years of Research, Teaching and Bench experience at numerous institutes, Pathological & Research laboratories of Pakistan, United States and Canada to perform traditional and advance molecular biology and virology experiments in Clinical Microbiology.

She received her PhD in Microbiology from University of Karachi & post doctorate from Claflin University, South Carolina, United States of America. Dr. Hakim spent time at Dr. Robert Striker’s Lab at University of Wisconsin Madison’s Medical School and Dr. Raj Karim’s Lab at University of Minnesota’s Duluth Campus learning molecular biology and cell culture techniques.

While in Pakistan, she served as Microbiologist and “Consultant Microbiologist” at Dr. Essa’s Diagnostic Centre, GoolBano and Burgor Anklesaria Hospital Karachi respectively. She was also involved in teaching and research as “Professor & Chairperson of Microbiology Department” at Jinnah University for Women, Karachi.

In Canada, she continued as a Lead health science instructor with Oxford College of Arts, Business and Technology Scarborough Campus to teach courses in Medical Laboratory Sciences, Clinical Research, and Infection control, and with Canadian Academy of Health Professionals as “Program Director for Allied Health Science”.

Dr. Hakim recently joined the STEM faculty at Tuba City centre of Diné College, where she is responsible for teaching and supervising courses in General Biology, Human Anatomy & Physiology and Microbiology. She loves to read about science, literature, and current affairs. As well as spending time gardening, walking along the beaches and enjoying time with her family.

She is so passionate regarding her role as an academician/researcher and scientist. She contributes her skills and experience with our youngsters especially women.

One of her favourite quotes is “Don’t stress. Do your best. Forget the rest".

source and image: Dr. Shazia Tabassum Hakim. editing and source: Sonja Begay
Women of STEM

Throughout my time here as an employee of Diné College, I notice more and more female students are enrolling for Science majors. I thought giving these native beauties exposure to the science community, along with our School of STEM might lead into a path to becoming, maybe, perhaps just like the "REAL MASTER CHIEF", Bonnie Ross, Microsoft Corporate Vice President and Head of 343 Industries, who is a video game developer and leads the gaming franchise Halo.

Jaiden Willeto

MAJOR
Environmental Science

CURRENT PROJECT
Researching habitat characterization and quality of the Rio Java, Costa Rica along land use and elevational gradient.

STEM EXPERTISE
Ecology, climate change and environmental sustainability.

source and image: jaiden willeto and sonja begay


Tammy L. Tom

**PROFESSION**
**Tsaile Campus**
**Math Faculty**
**M.A., University of Phoenix**
**B.A., Arizona State University**

**CURRENT PROJECT**
Tammy is a Developmental Mathematics Instructor here at Dine College for the last six years. Dine College has given her the opportunity to work with college students as they are continuing their education. There is a large variance of individuals who take the opportunity to learn and re-learn the basic skills of mathematics. By teaching in the fields of mathematics at the basic level, there’s a contribution of supporting student learning when the student moves into college level math courses. Her project is to build foundational math skills for students who are taking their steps back into education. The idea of math as a challenge, hinders the way our students are learning in the math classroom. Therefore, she finds various ways to teach math to help students move away from saying, “I hate math” or “I don’t like to do math”. Tammy’s goal is to show students there are different ways to learn math and find a solution, because the students who walk into our classroom’s are coming from different backgrounds of how he/she learned math. In her classroom she uses different methods for learning to take place from individual skills, pair learning, group collaboration, and building a sense of understanding. Students do board-work on math problems related to the lectures. This gives her a perspective of student learning taking place and can work independently outside the classroom. The pair learning is for students to communicate and explain to one another if one doesn’t know the process. Students are able to work with others and learn from their peers. Group work is where the students have a discussion, come to an agreement and who shows the final work through board-work. Overall, Tammy’s project goal is to make sure incoming students are learning the basic math concepts to be successful in future math course they choose to take.

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*Source and image: Tammy Tom and Sonja Begay*
Diné College Animal Club

Animal Care Club is a group of students that dedicate their free time to caring for reservation cats and dogs. Our mission is to find these animals a forever home where they can be loved and cared for. On a daily basis we feed upwards of 6-11 cats and dogs within the Tsaile area in the hopes that they become familiar with people. Once we gain their trust we take them to shelters located within the Four Corners area: La Plata County, Gallup Humane Society, and Flagstaff animal shelters. The students take pride in helping the local stray animals. If you happen to visit the main campus in Tsaile you might catch a glimpse of the students feeding the animals or trying to catch them, stop and say hello to them furry creatures or take one home.
**Diné College Green Club**

is a student-led organization dedicated to advancing recycling and promoting the wise use of manufactured goods in Tsaile-Wheatfield’s Chapter area. The Green Club members have established a hands-on recycling program with lessons that educate students about the environment, personal responsibility, community action and solid waste management. The Green Club members routinely check up and take out every recycling bin, sort them, clean them, and transport them to where they can be recycled. Our hope is the school recycling program will not only impact students and their families but also the communities and the overall waste diversion of the Navajo Nation.

Candice Fritz is the current Green Club and Animal Care Club President here at the Diné College main campus in Tsaile, Arizona. Candice Fritz is known for helping, educating, and supporting students and staff as they develop strategic investment plans for recycling and animal care. Her mission is to promote recycling and animal care, she is focused on improving the waste management on campus and creating a sustainable recycling program. She is pursuing an A.S. degree in Environmental Science. She currently lives in Tsaile, Arizona with her wife and daughter. Her hometown is the village of Moencopi, Arizona. When she is not keeping busy with recycling or catching animals, you can find her running her home business Bombdilly’s Pickle Slush.
Where to go for an INTERNSHIP

Scholarships

Look here for news of faculty development activities, as well as other workshops, etc., including those sponsored by land grants, environmental science...

Lead 21 National Park Service
http://www.anamp.org/

US DEPARTMENT OF ENERGY

More internships and scholarships listed at Diné College website and contact info.
Look and like here for news of faculty development activities, clubs, as well as other workshops, etc., including live videos. The School of STEM is in the process of developing more social media platforms, so please look out for YouTube videos, Instagram post, and live videos on Facebook. We will be broadcasting with DC very own radio station KXWR. For now go to our Facebook for quick news.

Hello. I'm DC School of STEM Program Coordinator. Thank you for taking the time viewing the newsletter. We want to let the world know who the DC School of STEM is, what they are doing and why. If you would like to be part of the newsletter, email me at sonjabegay@dinecollege.edu

ENJOY!