

CONVOY: A Cultural Approach of Navajo Youth to Bio- Medical Sciences (2023-2028)



<https://nihsepa.org/project/convoy-a-cultural-approach-of-navajo-youth-to-biomedical-sciences/>
<https://tribalcollegejournal.org/convoy-innovative-training-for-indigenous-youth/>

CONVOY- Summer activities – 2025 (Preliminary Agenda)

S.N o.	Date	Time	Activity	Facilitator	Phone	email	organization
1.	5/27/2025	5:30 pm to 8:00 pm	Orientation/ Open House/ Registration packets	Whole Team	928-283-5113 Ext: 7520, 7538, 7539 stabassum@dinecollege.edu liascott@dinecollege.edu		Diné College
2.	6/09/2025	9:00 am to 4:00 pm	First day, Introduction, grouping, lab tours	Dr. Shazia Hakim Dr. Babatunde Ojo Mr. Lorenzo Max Ms. Valadia Comia			Diné College

3.	6/10/2025	9:00 am to 12:00 pm	NIS-111(Foundation of Navajo Culture and Traditions)	Mr. Lorenzo Max		Diné College
		1:00 pm to 4:00 pm	Organic Chemistry, Molecular structures and their role in healthy living	Dr. Babatunde Ojo Tori Fulton Deshaniya		Diné College
4.	6/11/2025	9:00 am to 4:00 pm Group one	CPR, First AID & AED training And certification (group one)	Ms. Autumn Brown		NSC Learning Diné College
		9:00 am to 4:00 pm Group two	NIS-111(Foundation of Navajo Culture and Traditions) and Forensic studies of Skeleton	Mr. Lorenzo Max Dr. Hakim & Dr. Ojo		Mr. Max Dr. Ojo and Hakim's Lab.
5.	6/12/2025	9:00 am to 4:00 pm Group two	CPR, First AID & AED training And certification (group one)	Ms. Autumn Brown		NSC Learning Diné College
		9:00 am to 4:00 pm Group one	NIS-111(Foundation of Navajo Culture and Traditions) and Forensic studies of Skeleton	Mr. Lorenzo Max Dr. Hakim & Dr. Ojo		Mr. Max Dr. Ojo and Hakim's Lab.
13 th work from home; 14 th & 15 th holiday						
6.	6/16/2025	9:00 am to 2:00 pm	Blessing Way Ceremony	Mr. Lorenzo Max		At Cameron, AZ traditional Hogan Diné College
		2:00 pm to 4:00 pm	NIS-111 History of Basket Weaving Demonstration on Basket Weaving & it's association with Navajo traditional Medicines	Mr. Teddy Begaye		Navajo Medicine Man
7.	6/17/2025	9:00 am to 12:00 pm	NIS-111	Mr. Lorenzo Max and		Diné College

			Traditional Healing Songs & Musical Therapy	Mr. Teddy Begaye		Diné College
		1:00 pm to 4:00 pm	Forensic Activity Foot Prints case	Dr. Babatunde Ojo Tori Fulton Deshaniya Deshawn		Diné College
8.	6/18/2025	9:00 am to 12:00 pm	NIS-111 Importance of Na'ashó'ii dich'ízhii (horned toad) or Cheii (Grandfather) in Navajo traditions & Medicines NIS-111- ceremonial songs	Mr. Lorenzo Max		Diné College
		1:00 pm to 4:00 pm	Forensic Activity Messy cookies case	Dr. Babatunde Ojo Tori Fulton Deshaniya Deshawn		Diné College
9.	6/19/2025	9:00 am to 12:00 pm	NIS-111(Foundation of Navajo Culture and Traditions)	Mr. Lorenzo Max		Diné College
		1:00 pm to 4:00 pm	Forensic Activity Finger Printing case	Dr. Babatunde Ojo Tori Fulton Deshaniya Deshawn		
20th work from home; 21st & 22nd holiday Dr. Hakim will be attending ASM conference in LA						
10.	6/23/2025	9:00 am to 12:00 pm	NIS-111 Navajo traditional plants and their use in Medicine	Mr. Lorenzo Max		Diné College
		1:00 pm to 4:00 pm		Mr. Arnold Clifford		Navajo Botanist/ Medicine Man
11.	6/24/2025	9:00 am to 12:00 pm	NIS-111 Navajo traditional plants and their use in Medicine	Mr. Lorenzo Max And		Diné College
		1:00 pm to 4:00 pm		Mr. Arnold Clifford		Navajo Botanist/ Medicine Man

			Field Day to understand local medicinal plants of Navajo Nation			
12.	6/25/2025	9:00 am to 12:00 pm	-Solar Gardening Introduction -Seed Balls project & Solar garden and more for healthy living	Ms. Marquel Begaye and Mr. Emiliano		Diné College, Land Grant Department, and University of New Mexico
		1:00 pm to 4:00 pm	Solar Gardening Field Work	Ms. Marquel Begaye and Mr. Emiliano		Dr. Hakim Dr. Ojo Ms. Phyllis Begay Ms. Lisa scott
13.	6/26/2025	9:00 am to 11:00 am	Field trip to Cow Spring for water collection and testing; NSF crew	NSF Filming Team Paul Freedman Paul Boyer Jody Chase		NSF Crew
		11:00 am to 2:00 pm	Solar rise beds construction	Ms. Marquel Begaye and Mr. Emiliano		
		1:00 pm to 5:00 pm	Solar Gardening Field Work			
14.	6/27/2025	9:00 am to 12:00 pm	Navajo Leather Art work	Mr. Lorenzo Max And Mr. Roy Begody		Diné College
		1:00 pm to 4:00 pm	NIS-111- Medicine Wheel			
28 th & 29 th holiday						
15.	6/30/2025	9:00 am to 4:00 pm	Our hidden Friends or Enemies? Pathogens	Dr. Hakim, Dr. Ojo and Team		Hakim’s Lab., Diné College
			Environmental Contaminants	1. Sample collection 2. Gram’s staining 3. Light microscopy		Dr. Hakim Dr. Ojo Ms. Phyllis Begay Ms. Lisa scott

				4. Wet mount microscopy				
15.	7/01/2025	9:00 am to 12:00 pm	Cyanobacteria colony PCR	Introduction, DNA extraction and run colony PCR		Nandini Kannoju (Post doc at Varman Lab., Arizona State University)		
		1:00 pm to 4:00 pm		Once PCR is completed, proceed with gel electrophoresis				
16.	7/02/2025	9:00 am to 12:00 pm	Gene transfer among bacteria	Bacterial transformation hands on experiment (E.coli)				
		1:00 pm to 4:00 pm						
17.	7/03/2025	9:00 am to 12:00 pm	Know your body Hands on activities	Electrolytes in Sports Drink, juice, coconut water and other beverages		Hakim’s Lab., Diné College Dr. Hakim Dr. Ojo		
		1:00 pm to 4:00 pm		Bacteria from our skin/ saliva/ nose/or ears				
4 th of July Weekend								
18.	7/04/2025		Week of July 4 th , Break, enjoy with your family, bring a 300 words reflection paper with you to share where you find application of your CONVOY project knowledge, during the break. Have a draft of your science project ready (guidelines template will be provided) 1. Select a topic 2. List of requirements 3. Methodology (step by step) 4. List of resources used to develop your proposal 5. List of resources required 6. Abstract ready (350 words)					
19.	7/05/2025							
20.	7/06/2025							
21.	7/07/2025							
4 th , 5 th , 6 th & 7 th holiday								
22.	7/08/2025	9:00 am to 4:00 pm	Proposal draft presentation and discussion	Final proposal selection and	AISES Conference 2025 Abstract submission	Dr. Hakim Dr. Ojo		

			Final day to submit research abstract for a 100% registration discount	abstract submission		
23.	7/09/2025	9:00 am to 12:00 pm	1. Discussion of exposed vs. unexposed seed growth 2. Solar Balloon discussion and explanation of the extreme environment -Temp (-20c → -40c) -Altitude 60k ft MSL -Lack of O2/Air Pressure -30 x UV radiation -increased cosmic radiation 3. Hot air balloon activity (small scale in class)	Daniel (Dan) Small Main Focus on radiation exposure and its impact on human health in variety of ways Like changes in DNA, mutations, some of the reasons behind skin cancers		UAS Aviation Operations Unit (UAOU), Sandia National Lab, NM New Mexico Chapter Coordinator Science Heads LLC www.scienceheads.org
23.	7/09/2025	1:00 pm to 4:00 pm	1. prepare solar balloon payload / envelope 2. Solar radiation activity 3. Solar Balloon Launch from Tuba City Rodeo Ground at 10:00 am	Daniel (Dan) Small Each participant will develop their own solar balloon,	Will gather at Diné College and go to Tuba City High School Gymnasium together to build the balloons. Once done will go to Tuba City fairground for balloon launch and then back to DC	UAS Aviation Operations Unit (UAOU), Sandia National Lab, NM

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26.	7/14/2025	9:00 am to 4:00 pm	Water Filtration Unit construction and citizen science water testing event	Community invited	BBQ and presentations	Neilroy Singer Barbara Klein Dr. Hakim Dr. Ojo Ms. Phyllis Begay Ms. Lisa Scott
27.	7/15/2025	9:00 am to 4:00 pm	Sugar metabolism, Sports Science, Diabetes	Dr. Ojo		Dr. Ojo
28.	7/16/2025	9:00 am to 4:00 pm	DNA Barcoding for monitoring biodiversity & Disease Vectors (E. coli wild type), DNA extraction, Gel electrophoresis and Gel documentation	Dr. Hakim & Team		Hakim's Lab., Diné College
29.	7/17/2025	9:00 am to 4:00 pm	Project Proposal development	Dr. Hakim, Dr. Ojo & Team		
18 th work from Home; 19 th and 20 th holiday						
30.	7/21/2025	9:00 am to 4:00 pm	Day1: Biomedical Engineering, learn concept of AC to DC convertor. Construct tube rotator and many more	Biomedical Eng. Alexander Goldtooth		Department of Chemistry, Electronics Shop Engineer University of Utah
31.	7/22/2025		Day 2: Biomedical Engineering, learn concept of AC to DC convertor. Construct tube rotator and many more			
32.	7/23/2025	9:00 am to 4:00 pm	Day spend at Tuba City Regional Health care Corporation's Clinical Lab, Cardiopulmonary and Radiology Department, students rotation at Blood Banking, Urinalysis, Clinical Chemistry, Microbiology, Hematology, X-Ray, MRI, CT Scan, Mammography, EKG, and other sections			Dr. Hakim Dr. Ojo

						Ms. Charis Salabye (Director Clinical Lab., TCRHCC)
33	7/24/2025	9:00 am to 4:00 pm	Discussion and planning for fall projects	Dr. Hakim Dr. Ojo		Diné College
34.	7/25/2025	9:00 am to 5:00 pm	Brain is Diverse, so are WE	Dr. Syed Mubarak Hussain (Fly Guy) & the Team		Neural Diversity Lab, UNM
	7/26/2024	9:00 am to 11:00 am	Discussion and planning for fall projects	Dr. Hakim Dr. Ojo		Diné College
27 th & 28 th holiday						
34.	7/29/2024	9:00 am to 4:00 pm	Discussion and planning for fall projects	Dr. Hakim Dr. Ojo Ms. Phyllis Begay Mentor Avatars		Diné College and Rockman et al
35.	7/30/2024	9:00 am to 4:00 pm	Summer Exit Survey/ interview	Mr. Scott Burg		Mr. Scott Burg
36.	7/31/2024	9:00 am to 4:00 pm	<ul style="list-style-type: none"> Summer Training Certificate Distribution and Cook out (11:00 am to 2:00 pm) Summer Exit Survey/ interview 	Project Team, DC-Tuba City staff Families Teachers Community members		Dr. Hakim Dr. Ojo Ms. Phyllis Begay Francetta Begaye Mr. Scott Burg

37.	8/01/2024	9:00 am to 4:00 pm	<ul style="list-style-type: none"> • Last day of summer training Material & supplies distribution for fall projects • Briefing on continuation as fall internship by Dr. Hakim • Enrollment in dual credit courses for fall (optional) by Francetta Begaye 	Dr. Hakim Dr. Ojo Benita Litson Francetta Begaye Phyllis Begay		Diné College Dr. Hakim Dr. Ojo Benita Litson Francetta Begaye Phyllis Begay Scott Burg Lisa Scott
Fall Session Will Start on August 11 till October 30, 2025 We will meet every Friday from 4-5pm at Diné College Tuba City center to discuss the progress on individual projects						
38.	August 22	4-5 pm	Meet every Friday from 4-5pm at Diné College Tuba City center to discuss the progress on individual projects			Dr. Hakim Dr. Ojo
39.	August 29	4-5 pm	Meet every Friday from 4-5pm at Diné College Tuba City center to discuss the progress on individual projects			Dr. Hakim Dr. Ojo
40.	Sept. 05	4-5 pm	Meet every Friday from 4-5pm at Diné College Tuba City center to discuss the progress on individual projects			Dr. Hakim Dr. Ojo
41.	Sept. 12	4-5 pm	Meet every Friday from 4-5pm at Diné College Tuba City center to discuss the progress on individual projects			
42.	Sept. 19	4-5 pm	Bring your completed project in Power point Poster format, ready to print for conference presentation. A power point poster template will be shared			
43.	Sept. 26	4-5 pm	Final logistics for the travel, air ticket, accommodation and per diem final details, copys printing and distribution to participants			Dr. Hakim Dr. Ojo Ms. Phyllis Begay Ms. Priscilla Cooley Ms. Francetta Begaye

				Ms. Valadia Mojia Ms. Lisa Scott
44.	October 1-5, 2025 Depart: Arrival:		<div>AISES Conference participation https://conference.aises.org/ (Total expected travelers = students + faculty + staff = 40) Location: Minneapolis, MN <u>Special events</u> October 1, 2025 - STEM Activities Day October 4, 2025 Student Awards Ceremony October 4, 2025 Closing Banquet Location: Minneapolis Convention Center 1301 2nd Ave S, Minneapolis, MN 55404</div>	Dr. Hakim Dr. Ojo Ms. Phyllis Begay Ms. Priscilla Cooley Ms. Francetta Begaye Ms. Valadia Mojia Ms. Lisa Scott
<div>Important: If Parents/ Guardians are interested to join for the conference they will be responsible for their own travel/ accommodation/food and other expenses. CONVOY project will only be responsible for the travel/ accommodation and food arrangements for the CONVOY student participants, faculty and staff</div>				
42	October 17, 2024	Presentation and participation in Navajo Nation Western Agency Fair Kids Day		
43	October 22 to 31	Presentations at Tuba City High School, Tuba City Junior High School, Greyhills academy and Tuba City Unified School Board followed by submission of individual report by all participants		
End of second Year activities				