



#### Articulation

#### between

### Diné College, Tsaile, Arizona

#### and

## Navajo Technical University, Crownpoint, New Mexico

**Purpose:** The 2+ 2 articulation between Diné College (DC) and Navajo Technical University (NTU) determines equivalency of courses to be transferred. The articulation will help students transfer their courses seamlessly between the two institutions.

Effective Date: October 1, 2019

### Bachelor of Applied Science (B.A.S.) Degree in Advanced Manufacturing Technology

NTU#	NTU Course	Credit	DC Course #	DC Course Title	Credit	Comments
	Title	Hours			Hours	
ENGL1110	Composition I	3	ENG 101	Freshman I	3	
CS 101	Programming I	3	CSC 150	Programming Fundamentals	3	
MATH 1510	Calculus I	4	MTH 191	Calculus I	4	
ENGR 130	Engineering Graphics	3	N/A			
ENGR 123	Computer Skills for Engineering	3	N/A			
EE 101	Fundamentals of Electrical Engineering	3	N/A			V
ENGR 103	Introduction to Engineering	3	EGR 111	Introduction to Engineering	3	
ENGR 230	Advanced Engineering Graphics	3	N/A			
MATH 1220	College Algebra	4	MTH 110	College Algebra	4	
MATH 1230	Trigonometry	4	MTH 111	College Trigonometry	3	1 credit difference

	Characteristics of	Ι	N/A			
ENGR 143	Engineering		14/14			
2.101011	Materials	3				
AMT 210	Applied GD & T	3	N/A			
	Computer		N/A			
	Numerical		2.77.2			
AMT 280	Control Machine					
	Tools	3				
	Structure and		N/A			
IE 213	Properties of					
	Materials	3				
TE 242	Strength of		N/A			
IE 243	Materials	3				
	General		CHM 151	General Chemistry	4	
CHEM 1217	Chemistry I with		Mary Company of Parket Company	I	100	
	Lab	4				
ENGL 1100	G 33 H		ENG 102	Freshman		
ENGL 1120	Composition II	3		Composition II		
	Design &		N/A	1		
IE 223	Manufacturing					
	Processes I	3				
	Inferential		N/A			
<b>ENGR 236</b>	Engineering					
	Statistics	3				
NAV 221	Navajo		NIS 226	Navajo Nation		
NA V 221	Government	3		Government		
	Algebra-Based		PHY 110	Algebra-Based	4	
PHYS 1230	Physics I Lecture			Physics I		
	& Lab	4				
COMM 1130	Dublic Speaking		COM 121	Speech	3	
COMINI 1130	Public Speaking	3		Communication		
	History of		HUM 152	Film Appreciation	3	
HUMN 1180	American					
	Indians in Media	3				
	American		HST 136	American History	3	
HST 211	History 1877 to			1865 to Present		
	Present	3				

## **B.S. Degree in Animal Science**

NTU#	NTU Course	Credit	DC Course #	DC Course Title	Credit	Comments
	Title	Hours			Hours	
ENGL1110	Composition I	3	ENG 101	Freshman I	3	
ENGL1120	Composition II		ENG 102	Freshman	3	
ENGLITZO	Composition II	3		Composition II		
CMP 101	Introduction to		CSC 150	Programming	3	
CIVII 101	Computers	3		Fundamentals		
MATH 1220	College Algebra		MTH 121	College Algebra	3	1 credit
WIA111 1220		4				difference
NAV 225	Diné Philosophy		N/A			
INA V 223	of Education	3				

ECON 1110	Survey of	3	N/A			
	Economics					
CHEM 1217	General Chemistry I with Laboratory	4	CHEM 121/CHEM123L	General Chemistry I	4	
СНМ	General Chemistry II		N/A			
COMM 1130	Public Speaking	3	COM 121	Speech Communication	3	
HIST 1110	United States History I	3	HST 136	American History 1865 to Present	3	
ASC 100	Introduction to Animal Science	3	N/A			
ASC-220	Comparative Anatomy of Animals	3	N/A			
ASC 210	Animal Science Career Development	1	N/A			
ASC 200	Animal Science Practicum	2	N/A			
BIOL 120	Principles of Biology I	4	N/A			
BIOL 122	Principles of Biology II	4	N/A			
BIO 226	Principles of Genetics	4	N/A			
BIOL 2310	Microbiology	4	N/A			
ACG 212	Introduction to Finance	3	N/A			
ACG 210	Principles of Management	3	N/A			
MATH 1350	Introduction to Statistics	3	N/A			
PHYS 1230	Algebra-Based Physics I Lecture & Lab	4	PHY 110	Algebra-Based Physics I	4	

# Bachelor of Science (B.S.) Degree in Electrical Engineering

NTU#	NTU Course Title	Credit Hours	DC Course #	DC Course Title	Credit Hours	Comments
ENGL1110	Composition I	3	ENG 110	Freshman English I	3	
CS 101	Programming I	3	CSC 150	Programming Fundamentals	3	
MATH 1510	Calculus I	4	MTH 191	Calculus I	4	
ENGR 130	Engineering Graphics	3	N/A			

ENGR 123	Computer Skills for Engineering	3	N/A			
	Fundamentals of	3	N/A			
EE 101	Electrical		IN/A			
22 101	Engineering	3				
ENIOR 100	Introduction to		EGR 111	Introduction to	3	
ENGR 103	Engineering	3	LOK III	Engineering	3	
	Advanced		N/A	Engineering		
<b>ENGR 230</b>	Engineering		1 1/1 1			
	Graphics	3				
ENGR 169	Basic Statistics		MTH 213	Statistics	3	
ENGK 109	and Probability	3		Statistics	3	
	Characteristics of		N/A		+	
<b>ENGR 143</b>	Engineering		- 1/2-2			
	Materials	3				
MATH 1520	Calculus II	4	MTH 192	Calculus II	4	
CHEM 1120	Introduction to		CHM 130	Fundamental	4	
CHEWI 1120	Chemistry	4		Chemistry	15	
ENGL 1120			ENG 102	Freshman English	3	
ENGL 1120	Composition II	3		II		
EE 102	DC Circuits &		N/A			
EE 102	Systems	3				
EE 103	Digital &		N/A			
EE 103	Circuits Systems	3				1
	General		CHM 151	General Chemistry	5	
CHEM 1217	Chemistry I with			I		
	Laboratory	4				
NAV 110	Foundations of		NIS 111	Foundations of	3	
	Navajo Culture	3		Navajo Culture		
NAV 211	Navajo History		NIS 221	Navajo History to	3	
		3		Present		
NAV 221	Navajo		NIS 226	Navajo Nation	3	
	Government	3		Government		
	Algebra-Based		PHY 110	Algebra-Based	4	
PHYS 1230	Physics I Lecture			Physics I		
	& Lab	4				
EE 201	AC Circuits &		N/A			
	Systems	3				
	Introduction to		N/A			
EE 207	Modeling &					1
	Simulation					1
EE 212	Instrumentation	3	N/A			
HD OLITES	History of		HUM 152	Film Appreciation	3	
HUMN 1180	American				-	
	Indians in Media	3				
AATH 2412	Differential		MTH 221	Ordinary	3	1 credit
MATH 2410	Equations			Differential		difference
	1	4		Equations		difference .

# **B.S. Degree in Environmental Science and Natural Resources**

NTU#	NTU Course Title	Credit Hours	DC Course #	DC Course Title	Credit Hours	Comments
ENGL1110	Composition I	3	ENG 101	Freshman English I	3	
ENGL 2120	Intermediate Composition	3	ENG 180	Technical Writing	3	
CMP 101	Introduction to Computers	3	CSC 150	Programming Fundamentals	3	
GIT 105	Fundamentals of Cartography	3	ENV 103	Introduction to Cartography/GPS/GIS	1	
ENV 102	Environmental Science I with Lab	4	ENV 101	Introduction to Environmental Science	4	
ENV II	Environmental Science II with Lab	4	N/A		-	
MATH 1220	College Algebra	4	MTH 110	College Algebra	4	
ENGR 234	Engineering Statistics	3			•	
ENGR 169	Basic Statistics and Probability	3	MTH 213	Statistics	3	
MATH 1230	Trigonometry	4	MTH 111	Trigonometry	3	
CHEM 1120	Introduction to Chemistry	4	CHM 130	Fundamental Chemistry	4	
NAV 225	Diné Philosophy of Education	3	NIS 294/NIS 295	Diné Education Philosophy I & II	3	
CHEM 1217	General Chemistry I with Laboratory	4	CHM 151	General Chemistry I	5	1 credit difference
CHM 122	General Chemistry II	4	CHM 152	General Chemistry II	4	
COMM 1130	Public Speaking	3	COM 121	Speech Communication	3	
HUMN 1180	History of American Indians in Media	3	HUM 152	Film Appreciation	3	
HST 211	American History 1877 to Present	3	HST 136	American History 1865 to Present	3	
BIOL 1110	General Biology	4	BIO 181	General Biology I	4	
ENV 216	Fundamental of Ecology with Lab	4	ENV 225	Principles of Agroecology	4	
ENV 245	Natural Resources I	4	N/A			
ENV 289	Natural Resources II	4	N/A			
CHEM 2325	Environmental Chemistry	4	N/A			
ECON 1110	Survey of Economics	3	ECO 111	Introduction to Economics	3	
GIT 110	Geographic Information Systems I	3	ENV 160	Introduction to GIS	3	

GIT 111	Geographic	3	N/A		
	Information				
	Systems II				
GIT 202	Remote Sensing	4	N/A		
GIT 210	Service Learning	1	N/A		
	Project				
GIT 220	Database Query	3	N/A		
ENV 225	Introduction to	4	N/A		
	Hydrology with				
	Lab				
CHM 286	Inorganic	4	N/A		
	Chemistry with				
	Lab				

## **B.S. Degree in Industrial Engineering**

NTU#	NTU Course Title	Credit Hours	DC Course #	DC Course Title	Credit Hours	Comments
ENGL1110	Composition I	3	ENG 101	Freshman Composition I	3	
CS 101	Programming I	3	CSC 150	Programming Fundamentals	3	
MATH 1510	Calculus I	4	MTH 191	Calculus I	4	
ENGR 130	Engineering Graphics	3	N/A			
ENGR 123	Computer Skills for Engineering	3	N/A			
EE 101	Fundamentals of Electrical	2	N/A			
ENGR 103	Engineering Introduction to Engineering	3	EGR 111	Introduction to Engineering	3	
ENGR 230	Advanced Engineering Graphics	3	N/A	Lingtheering		
ENGR 169	Basic Statistics and Probability	3	MTH 213	Statistics	3	
ENGR 143	Characteristics of Engineering Materials	3	N/A			
MATH 1520	Calculus II	4	MTH 192	Calculus II		
CHEM 1120	Introduction to Chemistry	4	CHM 130	Fundamental Chemistry	4	
ENGL 1120	Composition II	3	ENG 102	Freshman Composition II	3	
IE 223	Design & Manufacturing Processes I	3	N/A			
ENGR 236	Inferential Engineering Statistics	3	N/A			
NAV 221	Navajo Government	3	NIS 226	Navajo Nation Government	3	

	Algebra-Based		PHY 110/111	Algebra-Based	4	
PHYS 1230	Physics I Lecture			Physics I & II		
	& Lab	4				
IE 235	Lean Production	3	N/A			
COMM 1130	Public Speaking	3	COM 121	Speech Communication	3	
HUMN 1180	History of American Indians in Media	3	HUM 152	Film Appreciation	3	
MATH 2410	Differential Equations	4	MTH 221	Ordinary Differential Equations	3	1 credit difference
HST 211	American History 1877 to Present	3	HST 136	American History 1865 to Present	3	

## **B.A.S. Degree in Information Technology**

NTU#	NTU Course	Credit	DC Course #	DC Course Title	Credit	Comments
	Title	Hours			Hours	
ENGL1110	Composition I	3	ENG 101	Freshman I	3	
CS 101	Programming I	3	CSC 150	Programming Fundamentals	3	
CMP 101	Introduction to Computers		CSC 110	Introduction to Computer	3	
MATH 1510	-	3	NAME AND ADDRESS OF THE PARTY O	Technology		
MATH 1510	Calculus I	4	MTH 191	Calculus I	4	
IT 115	Drawing/Visual Culture	3	N/A			
IT 125	Introduction to Digital Video	3	N/A			
IT 142	Web Design Concepts	3	DA 115	Web Design	3	
IT 150	Introduction to System Administration	3	N/A			
IT 220	Database Design	3	N/A			
IT 218	Algorithms & Data Structures	3	N/A N/A			
IT 218	Algorithms & Data Structures	3	N/A			
IT 222	Computer Security		N/A			
IT 280	IT Project Management	3	N/A			
IT 222	Computer Security	3	N/A			
IT 260	Internetworking	3	CSC 240	Network Fundamentals	3	
IT 270	Web Standards		N/A			

MATH 1220	College Algebra	4	MTH 110	College Algebra	4	
MATH 1230	Trigonometry	4	MTH 111	College Trigonometry	3	1 credit difference
CHEM 1217	General Chemistry I with Lab	4	CHM 151	General Chemistry	4	difference
ENGL 1120	Composition II	3	ENG 102	Freshman Composition II		
NAV 221	Navajo Government	3	NIS 226	Navajo Nation Government		
PHYS 1230	Algebra-Based Physics I Lecture & Lab	4	PHY 110	Algebra-Based Physics I	4	
COMM 1130	Public Speaking	3	COM 121	Speech Communication	3	
HUMN 1180	History of American Indians in Media	3	HUM 152	Film Appreciation	3	
HST 211	American History 1877 to Present	3	HST 136	American History 1865 to Present	3	

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14/20/2019

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DEAN OF UNDERGRADUATE STUDIES