

Navajo Technical University

Name: _____

ID#: _____

Bachelor of Applied Science Degree – Information Technology – Advanced Manufacturing (120 Credits)

Semester FIRST		CREDITS	Prerequisite	Semester / Transfer	Grade
ENGR103	Introduction to Engineering	3	MTH121		
ENGR123	Computer Skills for Engineering	3			
ENGR130	Engineering Graphics & Solid Modeling	3			
ENG 110	Freshman Composition	3	ENG098		
Semester TWO					
ENGR169	Basic Probability and Statistics	3	MTH120		
ENGR143	Characteristics of Engineering Material	3			
IT 105	Introduction to Programming	3			
NAV 211	Navajo History	3			
MTH 121	College Algebra	4	MTH120		
Semester THREE					
ENG 112	Technical Research and Writing	3	ENG105 or 110		
ENGR230	Advanced Mechanical Drafting	3			
MTH 123	Trigonometry	4	MTH121		
IE 223	Design and Manufacturing Process I	3	IE213		
PHY 111	Algebra Based Physics I	4	MTH120		
Semester FOUR					
AMT 311	Laser Scanning Methods/Techniques	3			
AMT 210	Applied GD&T	3			
AMT 370	Robotics/Offline Programming	3			
AMT 325	Digital Inspection/Quality Control	3			
Semester FIVE					
MTH 162	Calculus I	4	MTH123		
ME 345	Statics	3			
CHM 120	General Chemistry I	4	MTH120		
IE 243	Strength of Materials	3	IE213		
HUMXXX	Humanities Elective	3			
Semester SIX					
IT 340	Computer Simulation and Analysis	3			
ME 305	Introduction to System Dynamics	3			
IE 213	Structure & Property of Materials	3			
IE 483	Rapid Prototyping	3	IE223		
IE 343	Design and Manufacturing Process II	3	IE223		
Semester SEVEN					
AMT 401	Capstone	4			
IE 463	Facility Planning & Material Handling	3	ENGR313		
IE 484	Computer Aided Manufacturing & Robotics	3	CMP101 & IE234		
IE 433	Metrology and Instrumentation	3	IE223		
HUMXXX	Humanities Elective	3			
Semester EIGHT					
AMT 412	Advanced Digital Inspection	3			
AMT 415	Simulation of Manufacturing Systems	3			
AMT 430	PLC Programming	3			
HUMXXX	Humanities Elective	3			
HUM170	History of Native American in Media	3			
TOTAL CREDIT HOURS REQUIRED		120			

	Signatures	Date
Student:		
Advisor:		
Registrar:		
Graduation Date:		