Navajo Technical University

Name: _____   ID#:_____

Bachelor of Applied Science Degree – Information Technology (120-121 Credits)

Semester ONE		Credits	Prerequisites	Semester	Grade
ENGL 1110 or ENGL 1210	Composition I or Technical Communications	3	Grade of C or better in ENGL 100 or Satisfactory placement score.		
MATH 1240	Pre-Calculus	4	Grade of C or better in MATH 1220 or Satisfactory placement score.		
IT 105	Introduction to Programming	3			
IT 120	Operating Systems	3			
IT 160	Digital Ethics	3			
SSC 100	College Success Skills	1			
Semester TWO					
ENGL 2210	Professional or Technical Communication	3	ENGL 1210 or ENGL 1110		
MTH 205	Discrete Mathematics	3	MATH 1220		
BCIS 1115 or IT XXX	Introduction to Computers/Lower Division IT Elective	3			
IT 150	Introduction to System Administration	3			
IT 218	Algorithms & Data Structures	3	IT 105		
Semester THREE					
HUMN 1180	History of American Indians in Media	3			
IT 220	Database Design	3	Co-requisite MTH 205 Prerequisite-Grade of C or better in IT 218, MTH 205		
IT 222	Computer Security	3	Grade of C or better in IT 120, IT 150		
IT 262	Internetworking	3	Grade of C or better in IT 150		
PHYS 1230C or PHYS 1310C or BIOL 2110C or CHEM 1120C	Algebra Based Physics I or Calculus Based Physics I or Principles of Biology: Cellular & Molecular Biology or Introduction to Chemistry	4			
Semester FOUR					
XXXX-XXXX	NAVA 1110, NAVA 2210, or NAVA 2230	3-4			
XXXX-XXXX	Social & Behavioral Science/Humanities	3			
IT 290 or IT 280	Big Data Project Management or IT Project Management	3	C0-requisite IT 218 Pre-requisites-grade of C or better in IT 120, IT 150, IT 218, ENGL 1210/1110		
IT XXX	Lower Division IT Elective	3			
PHYS 1230C or PHYS 1310C or BIOL 2110C or CHEM 1120C	Algebra Based Physics I or Calculus Based Physics I or Principles of Biology: Cellular & Molecular Biology or Introduction to Chemistry	4			
Semester FIVE					
ENGL 2310 or NAVA 1310	Creative Writing I/Rug Weaving	3			
MATH 1350	Introduction to Statistics	3	Grade of C or better in MATH 1220		
IT 270	Web Standards	3	Grade of C or better in IT 218, IT 290, IT 280		
IT XXX	IT Upper Division Elective	3			
IT 332	Network Security	4	Grade of C or better in IT 160, IT 218, IT 220, IT 122, IT290/280		
Semester SIX					
XXXX-XXXX	Social & Behavioral Science/Humanities	3			
IT XXX	IT Upper Division Elective	3			
IT 375	Javascript Core Skills	4	Grade of C or better in IT 270, IT 332		
IT 435	HPC/Parallel Computing	3	Grade of C or better in IT 332		
Semester SEVEN					
IT XXX	IT Upper Division Elective	3			
IT 440	Advanced Technology Security	3	Grade of C or better in IT 332		
IT 472	Web App Development	3	Grade of C or better in IT 375		
IT 486	Information Management/Administration	3	Grade of C or better in IT 332		
IT 499	Practicum	3	Senior Standing & "A" grade of C or better in IT 332		

Semester EIGHT					
IT XXX	IT Upper Division Elective	3			
IT XXX	IT Upper Division Elective	3			
IT XXX	IT Upper Division Elective	3			
IT 499	Practicum	3	Senior Standing & "A" grade of C or better in IT 332		
TOTAL CREDIT HOURS		**124**			

Electives:

Lower Division Electives			
IT-110	Introduction to Digital Logic/Hardware Programming	3	
IT-111	Human Computer Interaction	3	
IT-112	Photography	3	
IT-115	Drawing and Visual Culture	3	
IT-118	Introduction to C++	3	
IT-120	Operating Systems	3	
IT-121	Database Systems and Data Preparation	3	
IT-125	Introduction to Digital Video	3	
IT-200	Sound Design	3	
IT-212	Documentary	3	
IT-215	Motion Graphics	3	
IT-275	Media Criticism	3	
IT-195/295	Topics in Information Technology	1-3	
Upper Division Electives			
IT-312	Studio Recording	3	
IT-315	Multicore Programming	4	IT-218
IT-333	Introduction to Machine Learning	3	IT-218
IT-335	Data Visualization	3	
IT-345	Editing Concepts	3	IT-225
IT-350	Programming Interactivity	3	
IT-415	Audio Project	3	
IT-445	3D Modeling/Animation	3	IT-215
IT-480	Aural and Optical Perception	3	
IT-395/495	Topics in Information Technology	1-3	

	Signatures	Date
Student:		
Advisor:		
Registrar:		
Graduation Date:		