

Navajo Technical University

Name: _____ ID#: _____

Bachelor of Applied Science Degree – Information Technology (122-123 Credits)

Students need to complete the core Information Technology and general education courses within the first two years of study with a grade point average of 2.50 or better before taking the upper-level core courses (300 and 400-level courses).

Semester FIRST		Credits	Prerequisite	Semester/ Transfer	Grade
MATH 1510	Calculus I	4	MATH 1230		
IT 105	Introduction to Programming	3			
IT 160	Introduction to Digital Ethics	3			
ENGL 1210	Technical Communication	3	ENGL 100		
SSC 100	College Success	1			
Semester TWO					
ENGL 2210	Professional & Technical Communication	3			
IT XXX	Lower Division IT Elective	3			
IT 218	Algorithms & Data Structures	3	IT 105		
IT 142	Web Design Concepts	3			
MATH 1520	Calculus II	4	MATH 1510		
Semester THREE					
HUMN 1180	History of American Indians in Media	3			
IT 150	System Administration	3			
IT 262	Internetworking	3	IT 150		
IT XXX	Lower Division IT Elective	3			
PHYS 1230C or PHYS- 1310C or BIOL 2110C or CHEM 1217C	Algebra-Based Physics I or Calculus Based Physics I or Principles of Biology: Cellular and Molecular Biology or Principles of Chemistry I	4	SEE CATALOG		
Semester FOUR					
Dine Studies	NAVA 1110, NAVA 2210, or NAVA 2230	3-4	SEE CATALOG		
SSC XXX	Social Science Course	3			
IT 222	Computer Security	3			
IT 290	IT Big Data Project Management	3			
PHYS 1240C or PHYS 1320C or BIOL 2120C or BIOL 226 or CHEM 1225C	Algebra Based Physics II or Calculus Based Physics II or Cellular and Molecular Biology or Principles of Biology or General Chemistry II for STEM Majors	4	SEE CATALOG		
Semester FIVE					
ENGL 2310 or NAVA 1310	Introduction to Creative Writing OR Rug Weaving I	3			
MTH 410	Linear Algebra	3	MATH 1520		
IT XXX	Lower Division IT Elective				
IT 332	Network Security	4	IT 222		
IT 315	Multicore Programming	3	IT 218		
Semester SIX					
HUM XXX	Humanities/ Social Science Course	3			
IT XXX	IT Upper Division Elective	3			
MATH 1350	Introduction to Statistics	3	MATH 1220		
IT 375	Javascript Core Skills	4	IT 270		
IT 435	HPC Parallel Computing	3	IT 315		
Semester SEVEN					
MTH 205	Discrete Mathematics	3	MATH 1220		
IT XXX	IT Upper Division Elective	3			
IT 472	Web App Development	3	IT 472		
IT 405	Cluster Maintenance/Management	4	IT 260		
Semester EIGHT					
IT 440	Advanced Technology Security	3	IT 332		
IT 486	Information Management & Administration	3	IT 290		
IT XXX	IT Upper Division Elective	3			
IT XXX	Introduction to Computers/IT Elective/ Any Engineering, Math, Computer Science or Information Technology course not repeating material	3			
IT 499	Practicum	3			
TOTAL CREDIT HOURS REQUIRED		122-123			

Elective:

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-220	Database Design	3			
IT-225	Digital Video II	3	IT-125		
IT-275	Media Criticism	3			
IT-195/295	Topics in Information Technology	1-3			
Upper Division Electives					
IT-312	Studio Recording	3			
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-425	Applied Data Science	3	IT-218		
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:		

UPDATED 4/25/2022