

Navajo Technical University

Name:

ID#:

Bachelor of Science Degree – Electrical Engineering (124-125 Credits)

A Bachelor's degree in electrical engineering requires **124-125** credit hours and is designed for a four year program of study. Students in the baccalaureate program are required to complete a minimum of 42 credit hours in the upper division courses, i.e., 300 and 400 level courses before they can graduate. The minimum credit load for a full time student is 12 credit hours per semester and a minimum credit load to qualify for the NM scholarship is 15 credit hours per semester.

- **Core EE Requirements - 54 Credits**
- **General Education Requirements - 22 Credits**
- **Mathematics and Sciences –30 Credits**
- **Technical Electives – 18 Credits**

The Electrical Engineering (EE) Program is accredited by the Engineering Accreditation Commission (EAC) of ABET, <https://www.abet.org>, under the General Criteria and the Electrical Engineering Program Criteria.

Semester ONE		Credits	Prerequisites	Semester/Transfer	Grade
ENGL 1110	Composition I ENG101	3	ENGL100 or satisfactory placement scores		
ENGR 123	Computers Skills for Engineering	3			
EE 101	Electrical Engineering Fundamentals	3			
ENGR 130	Engineering Graphics	3			
MATH 1510	Calculus I	4	MATH 1230 & MATH 1240		
SSC 100	College Success	1			
Semester TWO					
CS 101	Programming I	3			
EE 102	DC Circuits and Systems	3			
ENGR 103	Introduction to Engineering	3			
ENGL 1120	Composition II	3	ENGLR 1210 or ENGL 1110		
MATH 1520	Calculus II	4	MATH 1510		
Semester THREE					
EE 103	Digital Circuits & Systems	3			
CHEM 1217C	Principles of Chemistry I	4	MATH 1220, CHEM 1120C		
PHYS 1310C	Calculus-Based Physics I	4	MATH 1220, MATH 1230, or MATH 1240		
MATH 2410	Differential Equations	4	MATH 1520		
Semester FOUR					
EE 201	AC Circuits & Systems	3	EE 102		
PHYS 1320C	Calculus Based Physics II	4	PHYS 1310C, MATH 1510		
NAVA 2210	Navajo Culture	3			
MATHXXX	MATH 2530, MATH 1350, or MTH 415	3-4			
CFA	ENGL 2310, ENGL 2520, ENGL 2330, NAVA 1310	3			
Semester FIVE					
EE 207	Introduction to Modeling Simulation	3	EE 103		
EE 212	Instrumentation II	2	EE 101		
EE 296	Sophomore Project	1	Sophomore Standing		
HUMNXXX	Humanities: COMM1130	3			
SSCXXXX	Social Science: PSYC1110	3			
NAVA 2230	Navajo Government	3			
Semester SIX					
EE 301	Signals & Systems	3	EE 340		
EE 312	Instrumentation II	3	EE 212		
EE 340	Electronic Circuits & Systems	3	EE 201		
EE 396	Junior Research Project	3	EE 296		

ENGR 313	Engineering Economics	3	MATH 1215		
Semester SEVEN					
EE 422	Senior Project	3	EE 396		
EE 303	Probability & Random Signals	3	MATH 1510		
EE 412	Instrumentation III	3	EE 312		
XXX	Technical Elective Course	3			
MTH 410	Linear Algebra	3	MATH 1520		
Semester EIGHT					
EE 423	Capstone Design **	3			
XXX	Technical Elective	3			
XXX	Technical Elective	3			
XXX	Technical Elective	3			
Summer					
EE 313	Summer Internship	3			
TOTAL REQUIRED CREDIT HOURS:		124-125			

Listing of Technical Electives:

EE 310 Embedded System Design	EE 430 Computer Arch & Des.
EE 320 Instrumentation & Process Con.	EE 440 Operating System I
EE 330 Compu Org. & Assem Lang.	EE 460 Electrical Power Plan.
EE 360 Intro to Electrical Machines	EE 470 Electric Power Dev.
EE 370 Electrical Machines II	EE 471 Power System Analy.
EE 380 Electrical Transmission & Dist.	EE 472 Power Electronic&PM
EE 395 Special Topics	EE495 Special Topics
EE 406 Computer Networks	EE 3XX
EE 412 Instrumentation III	EE 4XX
EE 413 Summer Internship II	

**Summer internship should be taken in a field that supports the chosen concentration.*

	Signatures	Date
Student:		
Advisor:		
Registrar:		
Graduation Date:		

Revised 7/26/2026