Degree & Certificate Requirements

Nuclear Technology Instrumentation & Control Technician Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2025-2026 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
ELT 134	Alternating Current Circuits [RE]	5		
ELT 154	Semiconductors and Op Amps [RE]	5		
ELT 171	Digital Fundamentals [RE]	5		
ELT 211	Applied Electronics [RE]	5		
IC 201	Instrumentation I [RE]	5		
IC 202	Instrumentation II [RE]	5		
IC 203	Instrumentation III [RE]	5		
IC 230	PLC Programming & Computer Interfacing [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 114	Introduction to Radiation Safety [RE]	5		
NT 121	Reactor Plant Operations [RE]	4		
or				
NT 122	Basic Nuclear Facilities [RE]	4		
NT 131	Nuclear Facility Components [RE]	4		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance [RE]	5		
NT 150	Internship Seminar [RE]	1		
NT 152	Internship [RE]	1–5		
or				
NT 154	Industry Project [RE]	5		
NT 160	Nuclear Chemistry [RE]	3		
NT 170	Mechanical & Fluid Power Transmission [RE]	4		
	Subtotal	**77-81**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Chemistry - select 5 to 6 credits from the following:				
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
Physics - select 5 credits from the following:				
PHYS& 110 Physics for Non-Science Majors W/ Lab *or above*		5		
	Subtotal	**10-11**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Mathematics - 5 credits:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
	Subtotal	**20**		
	Total Credits Required	**107-112**		

Students must receive minimum 2.0 grade in all ELT, IC, and NT courses.
Required minimum cumulative 2.0 GPA.