

# Degree & Certificate Requirements

## Nuclear Technology Non-Licensed Nuclear Operator 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		
IC 250	Instrumentation & Control for Operators [RE]	5		
IC 260	Process Instrumentation [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		
NOP 111	Hydraulic and Fluid Flows [RE]	5		
NOP 221	Advanced Operational Systems [RE]	5		
NOP 231	Advanced Facility Components [RE]	5		
NOP 241	Chemical & Water Treatment Systems [RE]	5		
NOP 251	Advanced Thermodynamics and Heat Transfer [RE]	4		
<b>Subtotal</b>		<b>71-75</b>		

### Major Support

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

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## General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
<b>Communication - select 5 credits from the following:</b>				
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		
<b>English - select 5 credits from the following:</b>				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
<b>Mathematics - 5 credits:</b>				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
<b>Social &amp; Behavioral Sciences - select 5 credits from the following:</b>				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		

**Subtotal**      **20**  
**Total Credits Required**    **101-106**

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