

# Degree & Certificate Requirements

## Nuclear Technology Instrumentation & Control Technician One-Year Certificate PROFESSIONAL TECHNICAL 2021-2022 Certificate Requirements

### Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits	5		
ELT 134	Alternating Current Circuits	5		
ELT 154	Semiconductors and Op Amps	5		
NT 111	Basic Nuclear Math & Physics	5		
NT 114	Introduction to Radiation Safety	5		
NT 121	Reactor Plant Operations	4		
or				
NT 122	Basic Nuclear Facilities	4		
NT 131	Nuclear Facility Components	4		
NT 141	Basic Reactor Safety, Theory, & Operations	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance	5		
<b>Subtotal</b>		<b>38</b>		

### Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
<b>Chemistry - select 5-6 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 [M/S]	5		
Any PHYS& course higher than 110		5		
<b>Subtotal</b>		<b>10-11</b>		

### General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
<b>Communication Studies - 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	5		
<b>Mathematics - 5 credits:</b>				
MATH&141	Precalculus I [M/S] [Q/SR]	5		
<b>Subtotal</b>		<b>15</b>		
<b>Total Credits Required</b>		<b>63-64</b>		

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