

# Associate in Applied Science in Nuclear Technology

Instrumentation and Control Technician Option

PROFESSIONAL TECHNICAL

2012-2013 Degree Requirements

## Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
FYI	103	First Year Introduction for Trades	1		
NT	111	Basic Nuclear Math & Physics	5		
NT	114	Introduction to Radiation Safety	5		
NT	121	Reactor Plant Operations <i>or</i>	4		
NT	122	Basic Nuclear Facilities	4		
NT	131	Nuclear Facility Components	4		
NT	141	Basic Reactor Safety, Theory, & Operations <i>or</i>	5		
NT	142	Basic Nuclear Safety & Environmental Compliance	5		
NT	150	Internship Seminar	1		
NT	160	Nuclear Chemistry	3		
MEC	111	Mechanical & Fluid Power Transmission	4		
<b>Internship/Industry Project (select 7 credits)</b>					
NT	152	Internship <i>or</i>	1-7		
NT	154	Industry Project	1-7		

**Subtotal 39**

## Major Support

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
IC	201	Instrumentation I	5		
IC	202	Instrumentation II	5		
IC	203	Instrumentation III	5		
IC	230	PLC Programming & Computer Interfacing	5		
ELT	124	Direct Current Circuits	5		
ELT	134	Alternating Current Circuits	5		
ELT	154	Semiconductors and Op Amps	5		
ELT	171	Digital Fundamentals	5		
ELT	211	Applied Electronics	5		

**Subtotal 45**

**General Education**

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
<b>English (10 credits)</b>					
ENGL&	101	English Composition I	5		
ENGL&	235	Technical Writing	5		
<b>Science (10 credits)</b>					
PHYS&	134/124	General Physics I & Lab <i>or</i>	5		
PHYS&	241/231	Engineering Physics I & Lab	5		
CHEM&	140	General Chemistry Prep w/ Lab	5		
<b>Math (15 credits)</b>					
MATH&	141	Precalculus I	5		
MATH&	142	Precalculus II	5		
MATH&	146	Introduction to Stats	5		
<b>Human Relations (5 credits)</b>					
PSYC&	100	General Psychology	5		
<b>Communication Studies (select 3-5 credits)</b>					
CMST	101	Speech Essentials <i>or</i>	3		
CMST	103	Workplace Communication (preferred) <i>or</i>	3		
CMST	110	Communication Behavior <i>or</i>	3		
CMST&	210	Interpersonal Communication <i>or</i>	5		
CMST&	220	Public Speaking <i>or</i>	5		
CMST	260	Multicultural Communication	5		

**Subtotal 43-45**

**Total Credits Required 127-129**