

Associate in Applied Science in Nuclear Technology

Instrumentation and Control Technician Option

PROFESSIONAL TECHNICAL

2013-2014 Degree Requirements

Major Courses

| Course | No. | Course Title | Credits | Qtr. Completed | Comments/Substitution |
|---|-----|--|---------|----------------|-----------------------|
| 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 | | |
| FYI | 101 | First Year Introduction | 1 | | |
| Internship/Industry Project (select 5 credits) | | | | | |
| NT | 152 | Internship <i>or</i> | 1-5 | | |
| NT | 154 | Industry Project | 1-5 | | |

Subtotal 37

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 |
|---|---------|---|---------|----------------|-----------------------|
| English (5 credits) | | | | | |
| ENGL& | 101 | English Composition I <i>or</i> | 5 | | |
| ENGL | 103 | Writing in the Workplace | 5 | | |
| Science (10 credits) | | | | | |
| 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 | | |
| Math (5 credits) | | | | | |
| MATH& | 141 | Precalculus I | 5 | | |
| Human Relations (5 credits) | | | | | |
| PSYC& | 100 | General Psychology | 5 | | |
| Communication Studies (select 3-5 credits) | | | | | |
| 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 28-30

Total Credits Required 110-112