NUCLEAR POWER TECHNOLOGY

Certificates

The **Non-Licensed Operator, Electrical Technician, or Instrumentation & Control Technician** certificates are stand alone or may be used as specialty enhancements to existing related degrees: Nuclear Power Technology, Process Technology, Manufacturing Technology or other AAS degree by providing students more flexibility in their employment options.

The certificate programs meet requirements for ACAD 08-006 and prepare individuals to apply basic engineering technology principles, mechatronics, and other technical skills in support of maintenance and operational requirements of electrical, instrumentation and control, and mechanical equipment used in many sectors of industry; including power generation, chemical processing, manufacturing, and others.

NON-LICENSED OPERATOR

(CIP 41.0204)

Level II Certificate

College Readiness Courses (if needed)

Semester I	
NUCP 1371	Math and Chemistry Fundamentals for Nuclear Power
NUCP 2470	Nuclear Power Plant Systems I
SPCH 1315	Public Speaking
ENER 1350	Overview of Energy Industry
MATH 1314	College Algebra **or**
MATH 2412	Pre-Calculus Math

Semester II	
NUCP 1370	Nuclear Fundamentals I
NUCP 1373	Nuclear Fundamental II
NUCP 1372	Nuclear Power Plant Organization and Processes
NUCP 2471	Nuclear Power Plant Systems II (Capstone Course)
PTAC 1432	Process Instrumentation I

Total Semester Hours – 34

ELECTRICAL TECHNICIAN

(CIP 15.0403)

Level II Certificate

College Readiness Courses (if needed)

Semester I	
PTAC 1432	Process Instrumentation I
CETT 1409	DC-AC Circuits
INTC 1350	Digital Measurement and Controls
MATH 1314	College Algebra **or**
MATH 2412	Pre-Calculus Math
ENER 1350	Overview of Energy Industry **or**
INMT 1305	Introduction to Industrial Maintenance

Semester II	
ELMT 2437	Electronic Troubleshooting, Service, and Repair
INTC 1457	AC/DC Motor Control
ELMT 2441	Electromechanical Systems (Capstone Course)
SPCH 1315	Public Speaking

Total Semester Hours – 33

INSTRUMENTATION & CONTROL TECHNICIAN

(CIP 15.0404)

Level II Certificate

College Readiness Courses (if needed)

Semester I	
PTAC 1432	Process Instrumentation I
CETT 1409	DC-AC Circuits
INTC 1350	Digital Measurement and Controls
MATH 1314	College Algebra **or**
MATH 2412	Pre-Calculus Math
ENER 1350	Overview of Energy Industry **or**
INMT 1305	Introduction to Industrial Maintenance

Semester II	
PTAC 2436	Process Instrumentation II
INTC 1457	AC/DC Motor Control
ELMT 2452	Power Generation Instrumentation (Capstone Course)
SPCH 1315	Public Speaking

Total Semester Hours: 32-33