

TRACK C: Instrumentation & Control Technician Specialty

The Instrumentation & Control Technician curriculum includes the study of AC/DC Motor Control and advanced instrumentation. Graduates are prepared for entry-level work as a technician in the maintenance and repair of the instrumentation used in automation included in manufacturing, production, and power generation.

College Readiness Courses (if needed)

Semester I

INMT 1305	Introduction to Industrial Maintenance
INMT 2303	Pumps, Compressors, and Mechanical Drives
CETT 1409	DC-AC Circuits
INTC 1350	Digital Measurement and Controls
MATH 1314	College Algebra or
MATH 2412	Pre-Calculus Math

Semester II

HYDR 1450	Hydraulics, Fabrication and Repair
PTAC 1432	Process Instrumentation I
INMT 1491	Special Topics in Manufacturing Technology/Technician
SPCH 1315	Public Speaking

Semester III

ENGL 1301	Composition I
Humanities/Fine Arts from the AAS General Education Course List	
Social/Behavioral Sciences from the AAS General Education Course List	
CHEM 1405	Introductory Chemistry I or
CHEM 1411	General Chemistry I

Semester IV

INTC 1457	AC/DC Motor Control
PTAC 2436	Process Instrumentation II
ELMT 2452	Power Generation Instrumentation (Capstone Course)
Discipline Related Studies Elective*	

*Discipline Related Studies Electives

Choose one from the following:

- PHYS 1401 – College Physics I
- MATH 2413 – Calculus I
- CHEM 1411 – General Chemistry I **or**
CHEM 1412 – General Chemistry II
- ELMT 2437 – Electronic Troubleshooting, Service, and Repair (Offered Fall only)
- QCTC 1446 – Testing and Inspection Systems (Offered Fall only)
- MCHN 2403 – Fundamentals of Computer Numerical Controlled (CNC) Machine Controls
- INMT 1480 – Cooperative Education – Manufacturing Technology/Technician (Requires Program Director Approval)

Total Semester Hours – 60