

## Associate of Science – Instrumentation Technology Certificate of Achievement – Instrumentation Technology

### Catalog Description:

For the Associate of Science Degree complete the coursework listed below as well as the General Education requirements. Consult a Los Medanos College counselor to develop your education plan.

Courses in the first three semesters are common to both areas of specialization. In the fourth semester, the courses for each specialization vary, with the electrical technicians concentrating on the skills needed for electrical maintenance while the Instrumentation Technicians concentrate on the measurement and control of processes.

For the certificate of achievement, complete the coursework listed below. Consult a Los Medanos College counselor to develop an education plan.

### Program Requirements:

ETEC-010 Direct Current Circuits	4
ETEC-012 Alternating Current Circuits	4
ETEC-009 MATH for ETEC	3
ETEC-020 Electric Motor Control	3
ETEC-022 Semiconductor Devices	2
ETEC-024 Digital Devices	2
PHYS-015 Introduction to Physics	4
ETEC-030 Programmable Logic Controllers	4
ETEC-032 Instrumentation Process Measurement	3
ETEC-034 Instrument Calibration	1
CHEM-006 Intro to Inorganic and Physical Chemistry	4
ETEC-050 Instrumentation Process Control	3
ETEC-052 Applied Process Control	1
ETEC-056 Code for instrument Application	1
ETEC-058 Analytical Instrumentation	2
ETEC-059 System Integration & Troubleshooting	2

Total Units for the Certificate 43

Total Units for the Degree: 60

Major Total:	43 units
LMC GE Pattern:	18-19 units
Electives (as needed) (CSU transferrable):	5-6 units
Double-Counted:	7 units
Total Degree (maximum):	60 units