### INSTRUMENTATION TECHNOLOGY

College of Rural and Community Development Community and Technical College 907-479-2436 www.ctc.uaf.edu/programs/inst/

#### **Certificate**

Minimum Requirements for Certificate: 32 credits

The instrumentation technology program will develop entry-level skills in industrial instrumentation. Courses combine the technical know-how, the use of state-of-the-art equipment and hands-on experience necessary for work in a variety of industrial instrumentation fields.

Students are taught the necessary objectives and skills sets required to take the entry-level Instrumentation, Systems and Automation Society certificate examination. This is a nationally recognized certification by industry partners; individuals holding this certification are sought after by industry partners to fill instrumentation technician positions worldwide.

As the process industries expand and automate, the need for qualified technicians increases. This need is currently being addressed by the Industrial Instrumentation & Controls Technology Alliance. CTC and the process technology program are active members of this national alliance.

#### **Certificate Program**

- 1. Complete the general university requirements (page 118).
- 2. Complete the certificate requirements (page 118).

3.	Complete the following program requirements:*	
	ELT F101—Basic Electronics: DC Physics	
	ELT F102—Basic Electronics: AC Physics	
	ELT F246—Electronic Industrial Instrumentation	
	PRT F140—Industrial Process Instrumentation I	
	PRT F144—Industrial Process Instrumentation II	
	PRT F240—Industrial Process Instrumentation III	
	PRT F248—Valve Maintenance and Instrumentation	
	Minimum credits required	

\* Students must earn a  $\bar{C}$  grade or better in each course.



## **Certificate Requirements**

Communication 2-3 Credits
Complete one of the following:  • ENGL F111X—Introduction to Academic Writing
Computation
Complete one of the following:  Any course at the F100-level or above in mathematical sciences (computer science, math or statistics)
Human Relations 2-3 Credits
Complete one of the following:  • ANTH F100X/SOC F100X—Individual, Society and Culture (s)
Major specialtyat least 21 Credits
Electives to total

# **Associate of Applied Science Requirements**

	. 6 Credits
ENGL F111X—Introduction to Academic Writing	(3)
Complete one of the following:  ABUS F271—Business Communications	(3) (3) Sciences(3)
Oral Communication	. 3 Credits
Complete one of the following:  COMM F121X—Introduction to Interpersonal Communication: COMM F131X—Fundamentals of Oral Communication: Group COMM F141X—Fundamentals of Oral Communication: Public or successful completion of competency test	(3) Context(3)
Computation	. 3 Credits
Complete one of the following:  Any course at the F100 level or above in mathematical sciences (computer science, math or statistics	(3)(3)(3)(3)(3)(3)(3)
Human Relations	. 3 Credits
Complete one of the following:	(3)
ANTH F100X/SOC F100X—Individual, Society and Culture (s) ABUS F154—Human Relations	(s)(3) s (s)(3) (3) (3) (3) (2) rse or
<ul> <li>ANTH F100X/SOC F100X—Individual, Society and Culture (s)</li> <li>ABUS F154—Human Relations</li></ul>	(s)(3) s (s)(3) (3) (3) (3) (2) rse or t(3)

Minimum credits required for degree .......60 Credits

