



Degree Planning Sheet Industrial Process Instrumentation Associate of Applied Science

Updated 07/26/2017

Student Name: _____ **Advisor** (*please print*): _____

Student ID #: _____ **Advisor Signature:** _____

Industrial Process Instrumentation is a specialized technical degree. Strong math and science skills are emphasized. Students must work closely with advisors to complete this program in two years. A fifth semester of coursework may be necessary. Students are prepared for employment as instrument technicians. Instrument technicians are responsible for the repair, maintenance, adjustment, and calibration of automatic controls used in refineries, chemical plants, pipelines, oil and gas production facilities, food processing facilities, and other industries where automatic control is used.

Note: Consult with your faculty advisor for a course selection plan that will enable you to complete the program in a productive and timely manner.

Admission Requirements: Satisfy the Application and Admission Requirements for Associate Degree Programs

All students are required to take CIS A105 (or CIS A110) or **possess equivalent knowledge** prior to entering this degree program.

GENERAL EDUCATION REQUIREMENTS

Oral Communications Courses - select 3 credits from the following:

Course No.	Course Title	Credits possible	Semester taken	Grade	Credits taken
COMM A111	Fundamentals of Oral Communication	3			
COMM A235	Small Group Communication	3			
COMM A241	Public Speaking	3			
Total credits required: 3			Total credits taken:		

Written Communication Courses (6 credits):

Course No.	Course Title	Credits possible	Semester taken	Grade	Credits taken
WRTG A111	Writing Across Contexts	3			
WRTG A212	Writing and the Professions	3			
Total credits required: 6			Total credits taken:		

Math (3-4 credits) - Select MATH A105 or higher level:

Course No.	Course Title	Credits possible	Semester taken	Grade	Credits taken
MATH A105	Intermediate Algebra	3			
Total credits required: 3			Total credits taken:		

Natural Sciences Requirement - select 4 credits from the following:

Course No.	Course Title	Credits possible	Semester taken	Grade	Credits taken
PHYS A115/L	Physical Science + Lab	4			
PHYS A123/L	Basic Physics I + Lab	4			
Total credits required: 4			Total credits taken:		

Natural Science Requirement - select 4 credits from the following:

Course No.	Course Title	Credits possible	Semester taken	Grade	Credits taken
CHEM A103/L	Survey of Chemistry + Lab	4			
CHEM A105/L	General Chemistry I + Lab	4			
Total credits required: 4			Total credits taken:		



MAJOR SPECIALTY (43 credits)

Major Requirements - complete the following courses (40 credits):

Course No.	Course Title	Credits possible	Semester taken	Grade	Credits taken
ET A101/L	Basic Electronics: DC Circuits + Lab	4			
ET A102/L	Basic Electronics: AC Circuits + Lab	4			
ET A126/L	Digital Electronics	4			
ET A175	Technical Introduction to Computing Systems	3			
ET A240	Computer Systems Interfacing	3			
ET A241	Digital Control Systems	3			
ET A246	Electronic Industrial Instrumentation	3			
PRT A140	Industrial Process Instrumentation I	3			
PRT A144	Industrial Process Instrumentation II	3			
PETR A240	Industrial Process Instrumentation III	3			
PETR A244	Industrial Process Instrumentation IV	3			
PRT A130	Process Technology I: Equipment	4			
Total credits required: 40			Total credits taken:		

Major Requirements - complete one of the following courses (3 - 4 credits)

Course No.	Course Title	Credits possible	Semester taken	Grade	Credits taken
PETR A155	Blue Print Reading	3			
EDD A288	Computer Aided Drafting	4			
Total credits required: 3			Total credits taken:		

TECHNICAL ELECTIVES (3-4 Credits)

Electives - complete one of the following courses (3 - 4 credits):

Course No.	Course Title	Credits possible	Semester taken	Grade	Credits taken
CNT A170	CCNA 1 Network Fundamentals	4			
CS A109	Computer Programming: (Languages vary)	3			
ET A243	Programmable Logic Controllers	3			
PRT A230/L	Process Technology II: Systems + Lab	4			
PRT A250	Process Troubleshooting	3			
Total credits required: 3			Total credits taken:		

Total credits required for degree: 66 - 68

Total credits taken:

General University Requirements

- All courses must be at the 100 level or above.
- Students must earn at least 15 credits in residence.
- Students must earn a cumulative GPA of at least 2.00 (C) at UAA.
- Students must earn a cumulative GPA of at least 2.00 (C) in all courses required for the major
- All requirements must be met within 5 years of formal acceptance to an associate degree program.
- No more than 15 military credits can be applied toward an associate degree.

UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual:

www.alaska.edu/titleIXcompliance/nondiscrimination.



Industrial Process Instrumentation A.A.S

Example Course schedule

First Year Fall		
WRTG A111	Writing Across Contexts	3
MATH A105 or higher	Intermediate Algebra	3
*CIS A105 / A110	Introduction to PC's & Application Software	3
PRT A140	Industrial Process Instrumentation I	3
EDD A288	Computer Aided Drafting	4
*If required		16 Credits

First Year Spring		
ET A101/L	Basic Electronics: DC Circuits + Lab	4
**ET A126/L	Digital Electronics	4
**ET A175	Technical Introduction to Computing Systems	3
**PRT A130	Process Technology I: Equipment	4
PRT A144	Industrial Process Instrumentation II	3
		18 Credits

Second Year Fall		
WRTG A212	Writing and the Professions (Or Tech Elective)	3
**ET A102/L	Basic Electronics: AC Circuits + Lab	4
**ET A240	Computer Systems Interfacing	3
**CHEM A103/L	Survey of Chemistry + Lab	4
**PETR A240	Industrial Process Instrumentation III	3
		17 Credits

Second Year Spring		
ENGL A212	Technical Writing (Or Tech Elective)	3
COMM A111	Fundamentals of Oral Communication	3
**PHYS A115/L	Physical Science + Lab	4
**ET A241	Digital Control Systems	3
**ET A246	Electronic Industrial Instrumentation	3
**PETR A244	Industrial Process Instrumentation IV	3
		19 Credits

NOTES:

**Offered only once each academic year.

Offered every semester: PETR A155, ET A101, PRT A140, PRT A144