

# PROCESS TECHNOLOGY

College of Rural and Community Development  
Community and Technical College  
907-455-2906  
[www.ctc.uaf.edu/programs/protech/](http://www.ctc.uaf.edu/programs/protech/)

## A.A.S. Degree

Minimum Requirements for Degree: 63 credits

The process technology program prepares students for employment as operations technicians in the process industry, which includes oil and gas production, mining and milling, transportation and refining, chemical manufacturing, power generation, utilities, wastewater treatment facilities maintenance, and food processing.

This A.A.S. degree program incorporates technical and academic courses covering topics such as pumps and turbines, instrumentation, safety and quality control. Summer internships give students valuable practical experience and exposure to the true nature of process technology careers.

## Major — A.A.S. Degree

1. Complete the general university requirements (page 93).
  2. Complete the A.A.S. degree requirements (page 97).
  3. Demonstrate competence in computer technology skills (through the Process Technology program assessment) or complete one of the following:\*  
DRT F110—Computer Literacy for Technicians (3)  
or CIOS F150—Computer Business Applications (3)  
or a program advisor-approved computer applications course (3).....3
  4. Complete the following program major requirements\*:  
PHYS F115X—Physical Science I (4)  
and CHEM F100X—Chemistry in Complex Systems (4)  
or 8 credits of program advisor-approved natural science courses.....8  
PRT F101—Introduction to Process Technology .....3  
PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness.....3  
PRT F130—Process Technology I: Equipment .....4  
PRT F140—Industrial Process Instrumentation I .....3  
PRT F144—Industrial Process Instrumentation II .....3  
PRT F230—Process Technology II: Systems.....4  
PRT F231—Process Technology III: Operations .....4  
PRT F250—Process Technology Troubleshooting.....3  
PRT F255—Process Technology Quality .....1  
Major elective credits\*\* .....9
  5. Minimum credits required: .....63
- \* Students must earn a C grade (2.0) or better in each course.  
\*\* Electives must be approved by the Process Technology Program advisor.

**All degrees (e.g. Certificate, A.A., A.A.S., A.S., etc) require additional courses. Refer to specific degree and program requirements.**

## Certificate Requirements

### COMMUNICATION (2-3)

**Complete one of the following:**

ENGL F111X.....	(3)	_____
ABUS F170 .....	(3)	_____
ABUS F271 .....	(3)	_____
ENGL F211X.....	(3)	_____
ENGL F212 .....	(3)	_____
ENGL F213X.....	(3)	_____
COMM F131X.....	(3)	_____
COMM F141X.....	(3)	_____
DEVS F104 .....	(1 – 3)	_____
DEVS F105 .....	(3)	_____

*Other program-approved discipline-based communication course or discipline-based courses with embedded communication content. (2 – 3)*

\* ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.

### COMPUTATION (2-3)

**Complete one of the following:**

Any course at the F100-level or above in mathematical sciences (computer science, math or statistics).....	(3)	_____
ABUS F155 .....	(3)	_____
DEVM F105.....	(3)	_____
ECE F117 .....	(3)	_____
HLTH F116 .....	(3)	_____
HUMS F117.....	(3)	_____
PRT F155.....	(3)	_____
TTCH F131 .....	(3)	_____

*Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. (2 – 3)*

### HUMAN RELATIONS (2-3)

**Complete one of the following:**

ANTH F100X/SOC F100X .....	(3)	_____
ABUS F154 .....	(3)	_____
ANL F287.....	(3)	_____
ECE F245.....	(3)	_____
ED/PSY F245 .....	(3)	_____
HLTH F106 .....	(3)	_____
HUMS F120.....	(3)	_____
RHS F110 .....	(1)	_____
AND RHS F115 .....	(2)	_____

*Other program-approved discipline-based human relations course or discipline-based courses with embedded human relations content. (2 – 3)*

**MAJOR SPECIALTY CREDITS (minimum)..... 21**

**Minimum credits for required certificate..... 30**

## Associate of Applied Science Requirements

### COMMUNICATION (9)

ENGL F111X.....	(3)	_____
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**Complete one of the following:**

ABUS F271 .....	(3)	_____
ENGL F211X.....	(3)	_____
ENGL F212 .....	(3)	_____
ENGL F213X.....	(3)	_____

\* ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.

**Complete one of the following:**

COMM F131X.....	(3)	_____
COMM F141X.....	(3)	_____

### COMPUTATION (3)

**Complete one of the following:**

Any course at the F100-level or above in mathematical sciences (computer science, math or statistics).....	(3)	_____
ABUS F155 .....	(3)	_____
DEVM F105.....	(3)	_____
ECE F117 .....	(3)	_____
HLTH F116 .....	(3)	_____
HUMS F117.....	(3)	_____
PRT F155.....	(3)	_____
TTCH F131 .....	(3)	_____

*Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. (3)*

### HUMAN RELATIONS (2-3)

**Complete one of the following:**

ANTH F100X/SOC F100X .....	(3)	_____
ABUS F154 .....	(3)	_____
ANL F287 .....	(3)	_____
ECE F245 .....	(3)	_____
ED/PSY F245 .....	(3)	_____
HLTH F106 .....	(3)	_____
HUMS F120.....	(3)	_____
RHS F110 .....	(1)	_____
AND RHS F115 .....	(2)	_____

*Other program-approved discipline-based human relations course or discipline-based courses with embedded human relations content. (3)*

**MAJOR SPECIALTY CREDITS (minimum)..... 30**

**Minimum credits required for degree ..... 60**



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