

POWER GENERATION

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

Certificate

Minimum Requirements for Certificate: 37 credits

The power generation program will help students develop entry-level skills needed in industrial and commercial electrical power generation and maintenance. Courses combine the technical know-how and hands-on experience necessary to develop entry level workers in a variety of power generation and industrial fields. Students will become familiar with the operation and maintenance of the standard equipment encountered in the power generation industry.

Certificate Program

1. Complete the general university requirements (page 95).
 2. Complete the certificate requirements (page 97).
 3. Complete the following program (major) requirements: *

PGEN F101—Intro to Power Generation, Distribution and Alternative Energy	3
PGEN F102—Basic Electricity for Power Generation Operators	4
PGEN F103—Introduction to Power Generation: Maintenance	4
PGEN F104—Gas and Steam Turbines; Co-Generation and Combined Cycle Technologies	4
PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness.....	3
PRT F120—Water Quality Management for Process Industries.....	4
PRT F140—Industrial Process Instrumentation I	3
WMT F103—Welding I.....	3
 4. Minimum credits required 37
- * Students must earn a C grade (2.0) or better in each course.



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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