

Power Generation

College of Rural and Community Development
Tanana Valley Campus
907-455-2906
www.tvc.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 92).
- 2. Complete the certificate requirements (page 94).
- 3. Complete the following program (major) requirements: *
 - PGEN F101—Intro to Power Generation, Distribution and Alternative Energy3
 - PGEN F102—Basic Electricity for Power Generation Operators4
 - PGEN F103—Introduction to Power Generation: Maintenance.....4
 - PGEN F104—Gas and Steam Turbines; Co-Generation and Combined Cycle Technologies4
 - PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness.....3
 - PRT F120—Water Quality Management for Process Industries4
 - PRT F140—Industrial Process Instrumentation I3
 - WMT F103—Welding I3
- 4. Minimum credits required37

* Student must earn a C grade 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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