Advisor _____

Assigned By _____

CENTRALIA COLLEGE

Name _____

Date _____

2018-2019 EDUCATIONAL PLAN
Associate in Applied Science
Energy Technology/Power Operations

Course Placement Recommendations: English _____ Reading _____ Math _____

Fall Quarter, First Year			Credits
I T	117	Intro to Windows OS	3
MATH	098	Algebra I *	5
PPO	100	Intro to Energy Industry	5
PPO	150	Energy Efficiency	5
			13-18

Winter Quarter, First Year			Credits
MATH	099	Algebra II *	5
PPO	120	Print Reading	5
PPO	102	Power Generation	5
			10-15

Spring Quarter, First Year			Credits
BTEC	210	Word I	5
MATH&	107	Math in Society (M)	5
PPO	103	Electric Utility Distribution	5
PPO	130	Industrial Safety	5
			20

Summer Quarter, Optional Elective			Credits
PPO	191	Power Plant Job Prep	4

Fall Quarter, Second Year			Credits
ENGL&	101	English Composition I (C)	5
HLTH	145	Safety & Fitness (HF)	3
H R	110	Human Relations-Workplace	5
PPO	201	Plant Systems	5
			18

Winter Quarter, Second Year			Credits
ENGL&	102	Composition II (C)	5
PPO	202	Plant Maintenance	5
PPO	208	Hydroelectric Power	5
Elective Credits			5
			20

Spring Quarter, Second Year			Credits
BTEC	214	Excel	5
PPO	203	Plant Ops Refrigeration	5
Elective Credits			5
			15

Total Credits 100-110

Recommended Elective Courses:

CAD	112	Computer Aided Drafting	5
ENVS&	100	Survey of Env Science	5
MEC	116	AC/DC Electronics	4
MEC	250	Industrial Electronics	2
PHYS&	100	Physics: Non-Science Majors	5
PPO	205	Power System Operator I	5
PPO	206	Power System Operator II	5

*Credits not included in graduation totals
Students interested in fulfilling BAS-AM program admissions requirements should take ENGL& 101, 5 credits of humanities (CMST& 220 recommended), 5 credits of social science (ECON& 201 recommended), 5 credits of natural science w/lab, and 5 credits of quantitative skills (MATH& 146 recommended).

QTR/YR_____CREDITS_____

QTR/YR_____CREDITS_____

QTR/YR_____CREDITS_____

QTR/YR_____CREDITS_____

QTR/YR_____CREDITS_____

QTR/YR_____CREDITS_____

NAME

EMPHASIS: Energy Technology/Power Operations
DEGREE: Associate in Applied Science

Purpose: The Power Operations AAS Degree program prepares students to compete for employment in the Power Generation Industry. Centralia College is designated as Washington State's Center of Excellence for Energy Technology and is supported by statewide energy industry and labor leaders. The Energy Technology degree offers coursework in traditional sources of power generation as well as renewable energy and energy efficiency. The program prepares students for entry level positions such as power plant assistant control operator, technician, and other high voltage apprenticeships.

Note: Students thinking of transferring into an applied bachelors program, such as the Bachelor of Applied Science in Applied Management program that Centralia College offers, may need to take additional course work required for entrance:
• English Composition (5 credits) ** (note that English 102 and Public Speaking CMST& 202 are highly desirable, but not required)
• College-level math course (5 credits) **
• Social Science course (5 credits)
• Natural Science course (5 credits)
• One additional course in English, college-level math, social science, or natural science (5 credits)
** English Composition I and the college-level math class can replace the math and English course required in this degree program.

Program Outcomes - Students who successfully complete this program will have demonstrated the ability to:
A. Understand and operate electrical systems.
B. Understand the components used in the transmission of electricity.
C. Specialize in power generating, power transmission, metering, substation operations, plant mechanics, or boiler operations.
D. Knowledge of Energy Efficiency and hands-on experience of doing an energy audit of a home or building.
E. Knowledge of a practice for entrance exams that are typically required for entry into the electric utility industry.
Learning Themes:
General education outcomes at Centralia College help students, faculty, and the general public identify what learning is expected when a student has completed a degree or program. The administration, faculty, and staff have agreed upon the following five Learning Ability Themes which students can expect to encounter in most courses and by the completion of any degree or program.
Reasoning:
The ability to extract information from data, develop ideas and solutions, establish logical progression in thinking, and problem solve using such procedures as literary analysis or the scientific methods.
Written, Oral and Visual Communication:
The ability to make oneself understood in public, interpersonal, professional, artistic, and technical arenas.
Exploration-Self and Others:
An awareness of the values, beliefs, customs, and contributions of persons from one's own and other traditions, ethnicities, classes, and genders.
Resourcefulness:
The ability to adapt to change, such as technological innovations or environmental conditions.
Responsibility:
The ability to be accountable to self, society, and the natural world.

Estimated Quarterly Program Costs (subject to change without notice)

Tests: Accuplacer	$15
Resident Tuition (15 credits) and fixed fees*:	$1399
US Citizen Nonresident Tuition (15 credits) and fixed fees*:	$1536
Non US Citizen Nonresident Tuition (15 credits) and fixed fees*:	$3202
*Tuition is subject to change due to State Legislative actions	
Books and supplies (estimate):	$372
Lab fees:	$20