Plant Operations AAS-T

Required Coursework for Plant Operations AAS-T Degree

The actual order and specific coursework may vary depending on student placement, start date, and quarter. Please check with your Advisor prior to any substitutions.

Summer Quarter

Course #	*Course Name*	*Credits*
	Total Credits	**0**

Fall Quarter

Course #	*Course Name*	*Credits*
EST 104	Introduction to Bioenergy***	2
ENGL&101	English Composition I	5
MATH& 141	Pre-Calculus	5
(or MATH& 151)	(or Calculus I)	
BIOL& 211	Majors Cellular	5
(or SOC& 101)	(or Intro. to Soc.)	
	Total Credits	**17**

Fall Quarter

Course #	*Course Name*	*Credits*
EST 201	Plant Operations***	4
CHEM 161	General Chemistry I w/ Lab***	5
PHYS&114	General Physics I w/ Lab	5
(or PHYS& 221)	(or Engineering Physics I)	
Optional: MATH&238	Differential Equations	5
Optional: ENGR& 214	Statics	5
	Total Credits	**14-24**

Winter Quarter

EST 105	Process Support Systems***	3
CMST&220	Public Speaking	5
(or WRITE 110)	(or Technical Writing)	
PHIL 131	Introduction to Ethics	5
(or ANTH& 206)	(or Cultural Anthropology)	
MATH& 201	Statistics	5
Optional: MATH& 152	Calculus II	5
Optional: BIOL&212	Majors Plants	5
	Total Credits	**18-28**

Winter Quarter

EST 202	Bio-Chemical Conversion***	5
CHEM 162	General Chemistry II w/ Lab***	5
PHYS&115	General Physics II w/ Lab	5
(or PHYS& 222)	(or Engineering Physics II)	
Optional: MATH&220	Linear Algebra	5
	Total Credits	**15-20**

Spring Quarter

EST 106	Plant Equipment and Controls***	3
ECON 201	Microeconomics	5
MATH& 148	Business Calculus	5
(or MATH& 153)	(or Calculus III)	
HUM 110	Four Perspectives	5
(or HUM& 116)	(or Humanities I)	
Optional: BIOL&213	Majors Animals	5
	Total Credits	**18-23**
	Year One Credits	**53-68**

Spring Quarter

EST 203	Thermo-Chemical Conversion***	5
CHEM 163	General Chemistry III w/ Lab***	5
PHYS&116	General Physics III w/ Lab	5
(or PHYS& 223)	(or Engineering Physics III)	
Optional: GEOL& 110	Environmental Geology	5
	Total Credits	**15-20**
	Year Two Credits	**44-64**
	Credit total for AAS-T in Plant Operations:	**97-132**

- **Note1: ***Upon completion of this AAS-T, students also earn a *Short* Certificate in Bioproducts (min. 20 credit)**
- **Note2: "Optional" courses required by University of Idaho Renewable Materials: none**
- **Note3: Alternative and "Optional" courses required by University of Washington Bioresource Science and Engineering: Calculus series, SOC& 101, WRITE 110, ANTH&206, HUM&116, Engineering Physics series, MATH& 238 and 220, ENGR&214, + GEOL& 110**
- **Note4: "Optional" courses required by Oregon State University BioResource Research: Calculus series and Biology series**
- **Note5: All EST courses work to satisfy required elective requirements at the university level.**

Degree can be earned after completing all identified courses.