

**SCHENECTADY COUNTY COMMUNITY COLLEGE**  
CURRICULUM WORKSHEET for AAS Programs

PROGRAM: **ALTERNATIVE ENERGY TECHNOLOGY (A.A.S)**

HEGIS # 5311

SCCC Program Code # 93

PROGRAM REQUIREMENTS	CR	SUNY GEN ED CATEGORY*	SATISFIES LIBERAL ARTS AND SCIENCES (YES)
FYS 100 First Year Seminar	1		
ENV 100 Intro to Environmental Science	3	Natural Sciences and Scientific Reasoning	Yes
ELT 110 Electrical Circuits	4		
ENG 123 English Composition	3	Communication: Written and Oral; Critical Thinking and Reasoning; Information Literacy	Yes
MAT 123 Quantitative Reasoning	3	Mathematics and Quantitative Reasoning	Yes
AET 118 Lean Manufacturing	1		
CIS 221 Computer Applications	3		
ELT 121 Electrical Circuits II	4		
MAT 147 Statistics	3	Mathematics and Quantitative Reasoning	Yes
NMT 150 Introduction to Materials Science	3		
AET 210 Power Generation	3		
ELT 231 Electronics	4		
ELT 123 Electrical Schematics	2		
CHM 113 Fundamentals of Chemistry	4	Natural Sciences and Scientific Reasoning	Yes
ETH 221 Professional and Applied Ethics	1		
AET 272 Power Transmission	3		
ELT 270 Power Electronics	3		
ENG 211 Technical and Professional Writing	3	Humanities	Yes
CIV 100 Foundations of Free Society	3	Diversity: Equity, Inclusion, and Social Justice; Civic Discourse	Yes
Restricted Elective (a)	3		
Restricted Elective (a)	3		
Restricted Elective (a)	3-4		
Minimum Credit Hours	63	**Total Gen. Ed. Knowledge and Skill Credits: 22	Total LAS Credits (at least 20): 22
		*Total Gen. Ed. Knowledge and Skill Areas: 5	

\*Required are the knowledge and skill areas of Communication, DEISJ, Mathematics, and Natural Sciences; and the core competencies of Critical Thinking, Information Literacy, and Civic Discourse.

\*\*Must add up to at least 20 credits. Additional Comments: Please refer to the footnotes on the reverse side.

**ALTERNATIVE ENERGY TECHNOLOGY  
ASSOCIATE IN APPLIED SCIENCE**

FIRST YEAR

Fall Semester	CR	Spring Semester	CR
ENV 100 Intro to Environmental Science	3	AET 118 Lean Manufacturing	1
ELT 110 Electrical Circuits I	4	CIS 221 Computer Applications	3
ENG 123 English Composition	3	Restricted Elective (a)	3
FYS 100 First Year Seminar	1	ELT 121 Electrical Circuits II	4
MAT 123 Quantitative Reasoning	3	MAT 147 Statistics	3
	14	NMT 150 Introduction To Materials Science	3
			17

SECOND YEAR

Fall Semester	CR	Spring Semester	CR
AET 210 Power Generation	3	AET 272 Power Transmission	3
ELT 231 Electronics	4	ELT 270 Power Electronics	3
ELT 123 Electrical Schematics	2	ENG 211 Technical & Professional Writing	3
CHM 113 Fundamentals of Chemistry	4	CIV 100 Foundations of Free Society	3
ETH 221 Professional and Applied Ethics	1	Restricted Elective (a)	3
Restricted Elective (a)	3-4		15
	17-18		

Minimum Credit Hours required for degree: **63**

**NOTES:**

(a) Restricted Electives: A student can choose three electives in consultation with his/her advisor.

- AET 110 Intro to Wind Power Technology
- AET 112 Intro to Storage Battery Technology
- AET 114 Intro to Solar Energy Technology
- AET 116 Intro to Fuel Cell Technology
- ELT 261 Programmable Logic Controls