

# Book & Tool List

## ENERGY SYSTEMS TECHNOLOGY & EDUCATION CENTER

### Associate of Applied Science: Energy Systems Nuclear Operations Technology

#### Book List for AAS – Energy Systems Nuclear Operations Technology

Course	Course Title	Book Title	ISBN	Cost
ESET 0121	Basic Electricity and Electronics	Electric Circuits Fundamentals – w/CD, 6 <sup>th</sup> 4 Ed.	9780131111394	56.95
ESET 0121	Basic Electricity and Electronics	Practical Electronics F/Inventors, 4 <sup>th</sup> 16 Ed.	9781259587542	19.75
ESET 0122	Electrical Systems and Motor Controls	Electrical Motor Controls for Integrated Systems – w/DVD, 5 <sup>th</sup> 14 Ed.	9780826912268	78.85
ESET 0151	Nuclear Industry Fundamental Concepts	Nuclear Energy, 2 <sup>nd</sup> 4 Ed.	9780387207780	97.00
ESET 0152	Nuclear Careers and Information	Grit: The Power of Passion and Perseverance	9781501111112	9.40
ESET 0220	Thermal Cycles and Heat Transfer	Thermodynamics for Dummies	9781118002919	9.70
ESET 0221	Nuclear Steam Supply Systems	Steam Plant Operation, 10 <sup>th</sup> 17 Ed.	9781259641336	48.50
ESET 0249	Reactor Plant Materials	Niosh Pocket Gde. To Chemical Hazards, Rev 10 Ed.	9781610992190	12.55
ESET 0249	Reactor Plant Materials	Introduction to Nuclear Materials, 13 <sup>th</sup> Ed.	9783527412013	100.70
ESET 0249	Reactor Plant Materials	Emergency Response Guidebook 2020, 20 <sup>th</sup> Ed.	9781645510215	5.50
ESET 0250	Radiation Detection and Protection	Introduction to Radiation Protection, 7 <sup>th</sup> 19 Ed.	9781138333079	58.65
ESET 0251	Reactor Theory Safety and Design	How to Drive a Nuclear Reactor, 19 Ed.	8220111391381	25.00
ESET 0279	Conduct of Operations	Safety, Reliability, Human Factors, 2018 Ed.	9780367890643	44.96
ESET 0280	Capstone and Case Studies in Nuclear Engineering Technology	Hostages of Each Other (Paper), 94 Ed.	9780226706887	14.55
ENGL 1101	Writing & Rhetoric I	Little Seagull Handbook w/Access Pkg.	9780393877939	22.00

Course	Course Title	Book Title	ISBN	Cost
ENGL 1102	Writing & Rhetoric II	World is Flat – Updated & Expanded, 7 <sup>th</sup> Ed.	9780312425074	10.85
ENGL 1102	Writing & Rhetoric II	Writer’s Resource, 5 <sup>th</sup> 16 Ed.	9780078036187	47.05
COMM 1101	Fundamentals of Oral Communication	Fund. Of Oral Communication Access Code	9781644850817	78.57
MATH 1153	Statistical Reasoning	Introductory Statistics – WebAssign, 19 <sup>th</sup> Ed.	9781337777186	54.21
MATH 1153	Statistical Reasoning	Introductory Statistics (OER), 18 <sup>th</sup> Ed.	9781506698236	14.15
PHYS 1101	Elements of Physics	EBK Applied Physics, 11 <sup>th</sup> Ed.	9780134241142	64.99
PSYC 1101 (Obj 6 Option)	Introduction to Psychology	Psychology Looseleaf w/Access, 13 <sup>th</sup> Ed.	9781319393830	80.00
<b>TOTAL</b>				<b>\$953.88</b>

### Course Fees for AAS – Energy Systems Nuclear Operations Technology

Course	Course Title	Fee
ESET 0100L	Engineering Technology Orientation Lab	75.00
ESET 0121L	Basic Electricity and Electronics Laboratory	65.00
ESET 0122	Electrical Systems and Motor Control Theory	50.00
ESET 0122L	Electrical Systems and Motor Control Theory Laboratory	142.50
ESET 0140	Applied Technical Intermediate Algebra	20.00
ESET 0151	Nuclear Industry Fundamental Concepts	105.00
ESET 0151L	Nuclear Industry Fundamental Concepts Laboratory	25.00
ESET 0153	Radiological Control Fundamentals	375.00
ESET 0242	Practical Process Measurements and Control	25.00
MATH 1153	Statistical Reasoning	5.00
TGE 1257	Applied Ethics in Technology	105.00
<b>TOTAL</b>		<b>\$992.50</b>

### Other Fees for AAS – Energy Systems Nuclear Operations Technology

Description	Fee	
ISCET Test #3	35.00	
<b>TOTAL</b>		<b>\$35.00</b>

## Tools/Supplies for AAS – Energy Systems Nuclear Operations Technology

Quantity	Description	Cost
1	Alligator clip test leads set	8.00
1	Safety glasses	8.00
1	Small tool box or tool bag (with lock)	15.00
1	Digital multimeter: with the ability to measure current, resistance, and voltage (Cen-Tech 37772 or 61593)	25.00
1	Slotted and Philips screw driver set	10.00
1	Small adjustable wrench	3.00
1	Wire strippers	8.00
1	Crimpers/cutter	8.00
1	Diagonal (side) wire cutters	7.00
1	Lab Notebook: Quad ruled, wire-bound with duplicates (9781930882744)	21.00
1	Needle nose pliers	5.00
1	Scientific Calculator: Casio FX-115MS Plus SR	21.00
1	Flash (jump) drive (4GB or higher)	10.00
<b>TOTAL</b>		<b>\$149.00</b>

### Summary

Tuition	\$15,744.00
Books	\$953.88
Fees	\$1,027.50
Tools/Supplies	\$149.00
Program Total	\$17,874.38