

# Book & Tool List

## ENERGY SYSTEMS TECHNOLOGY & EDUCATION CENTER

### Associate of Applied Science: Energy Systems Nuclear Operations Technology: Facility Technician Track

#### Book List for AAS – Energy Systems Nuclear Operations Technology: Facility Technician Track

Course	Course Title	Book Title	ISBN	Cost
ESET 1100L	Introduction to an Industrial Environment Laboratory	Ugly's Electrical Safety and NFPA 70E, 5 <sup>th</sup> 21 Ed.	9781284226553	20.21
ESET 1122	Electrical Systems and Motor Control Theory	Electrical Motor Controls for Integrated Systems – With DVD, 5 <sup>th</sup> 14 Ed.	9780826912268	127.77
ESET 1140	Applied Technical Intermediate Algebra	Intermediate Algebra – Aleks 360 Access, 5 <sup>th</sup> 18 Ed.	9781259948794	152.96
ESET 1152	Nuclear Careers and Information	Nuclear Energy, 2 <sup>nd</sup> 04 Ed.	9780387207780	187.49
ESET 1152	Nuclear Careers and Information	Essential Guide to Getting a Job in the Nuclear Power Industry, 14 Ed.	9781627340137	25.64
ESET 2220	Thermal Cycles and Heat Transfer	Nuclear Reactor Thermal Hydraulics: AN, 20 Ed.	9781138035379	187.50
ESET 2249	Reactor Plant Materials	Niosh Pocket Guide to Chemical Hazards	9781610992190	25.92
ESET 2249	Reactor Plant Materials	Introduction to Nuclear Materials	9783527412013	154.97
ESET 2249	Reactor Plant Materials	Emergency Response Guidebook: 2020	9781645510239	4.70
ESET 2250	Radiation Detection and Protection	Introduction to Radiation Protection, 7 <sup>th</sup> 19 Ed.	9781138333079	44.96
ESET 2280	Capstone and Case Studies in Nuclear Engineering Technology	Safety, Reliability, Human Factors, and Human Error in Nuclear Power Plants (Paperback), 18 Ed.	9780367890643	48.71
ENGL 1101	Writing and Rhetoric I	Rules for Writers (Spiral), 10 <sup>th</sup> 22 Ed.	9781319244255	56.56

Course	Course Title	Book Title	ISBN	Cost
ENGL 1101	Writing and Rhetoric I	Everyone's an Author: With Readings, MLA – W/Access, 4 <sup>th</sup> 23 Ed.	9781324045274	57.09
ENGL 1101	Writing and Rhetoric I	Dr. No: A Novel, 22 Ed.	9781644452080	6.99
ENGL 1102	Writing and Rhetoric II	Writing and Reading Across Curriculum, 14 <sup>th</sup> 19 Ed.	9780134668512	53.99
CHEM 1111	General Chemistry I	EP AKTIV Chemistry Activation F42	9781955404457	60.00
CHEM 1111L	General Chemistry I Lab	General Chem. 1111L Manual+TH Classroom	9781778773112	28.63
CHEM 1111L	General Chemistry I Lab	Laboratory Notebook 100 Carbonless Set	9781506647401	30.50
PHYS 1101	Elements of Physics	Perusall Access – College Physics 1E	9781947172012	14.27
COMM 1101	Fundamentals of Oral Communication	Fund. Of Oral Communication Access Code	9781644850817	78.57
PSYC 1101 (Obj. 6 Option)	Introduction to Psychology	Psychology – Achieve Read and Practice (1 Term), 14 <sup>th</sup> 24 Ed.	9781319489892	64.29
<b>TOTAL</b>				<b>\$1,431.72</b>

### Course Fees for AAS – Energy Systems Nuclear Operations Technology: Facility Technician Track

Course	Course Title	Fee
ESET 1100L	Introduction to an Industrial Environment Laboratory	75.00
ESET 1121L	Basic Electricity and Electronics Laboratory	55.00
ESET 1122L	Electrical Systems and Motor Control Theory Laboratory	142.50
ESET 1151	Nuclear Industry Fundamental Concepts	25.00
ESET 1151L	Nuclear Industry Fundamental Concepts Lab	25.00
ESET 1153	Radiological Control Fundamentals	125.00
ESET 2242	Practical Process Measurements and Control	25.00
ESET 2248	Power Plant Documentation and Procedures	15.00
ESET 2249	Reactor Plant Materials	47.00
ESET 2279	Conduct of Operations	25.00
PHYS 1101	Elements of Physics	60.00
MATH 1153	Statistical Reasoning	5.00
CHEM 1111/L	General Chemistry I Lab	80.00
<b>TOTAL</b>		<b>\$704.50</b>

Other Fees for AAS – Energy Systems Nuclear Operations Technology:  
Facility Technician Track

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

Tools/Supplies for AAS – Energy Systems Nuclear Operations Technology:  
Facility Technician Track

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	\$20,890.00
Books	\$1,431.72
Fees	\$739.50
Tools/Supplies	\$149.00
Program Total	\$23,210.22

*\*Costs listed are estimations and should not be considered a guarantee.*