

# Book & Tool List

## ENERGY SYSTEMS TECHNOLOGY & EDUCATION CENTER

### Associate of Applied Science: Energy Systems Mechanical Engineering Technology

#### Book List for AAS – Energy Systems Mechanical Engineering 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 Control Theory	Electrical Motor Controls for Integrated Systems – w/DVD, 5 <sup>th</sup> 14 Ed.	9780826912268	78.85
ESET 0123	Mechanical Power Transmission	Pocket Reference, 4 <sup>th</sup> 11 Ed.	9781885071620	6.40
ESET 0123	Mechanical Power Transmission	Machinery's Handbook, 31, Toolbox Ed., 31 <sup>st</sup> 20 Ed.	9780831137311	59.25
ESET 0220	Thermal Cycles and Heat Transfer	Thermodynamics for Dummies, 11 <sup>th</sup> Ed.	9781118002919	9.70
TGE 0159	Internship Strategies	Employment Strategies For Today, 15 <sup>th</sup> Ed.	9781465269546	79.38
ENGL 1101	Writing & Rhetoric I	Little Seagull Handbook w/Access Pkg.	9780393877939	22.00
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 Loose-Leaf w/Access, 13 <sup>th</sup> Ed.	9781319393830	80.00
TOTAL				<b>\$624.20</b>

## Course Fees for AAS – Energy Systems Mechanical Engineering Technology

Course	Course Title	Fee
ESET 0100L	Engineering Technology Orientation Laboratory	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 0123L	Mechanical Power Transmission Laboratory	10.00
ESET 0140	Applied Technical Intermediate Algebra	20.00
ESET 0242	Practical Process Measurements and Control	25.00
ESET 0243L	Hydraulic and Pneumatic Power Laboratory	20.00
ESET 0244L	Rotating Equipment and Millwright Maintenance Laboratory	30.00
MATH 1153	Statistical Reasoning	5.00
<b>TOTAL</b>		<b>\$442.50</b>

## Tools/Supplies for AAS – Energy Systems Mechanical Engineering Technology

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

### Summary

Tuition	\$15,744.00
Books	\$624.20

Fees	\$442.50
Tools/Supplies	\$149.00
Program Total	\$16,959.70