

# Book & Tool List

## ENERGY SYSTEMS TECHNOLOGY & EDUCATION CENTER

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

#### Book List for AAS – Energy Systems Instrumentation Engineering Technology

Course	Course Title	Book Title	ISBN	Cost
ESET 0101	Electrical Circuits I	Grob's Basic Electronics (Looseleaf), 13 <sup>th</sup> 21 Ed.	9781260445367	112.65
INST 0281	Electrical Automation Theory	Electrical Motor Controls F/Int...-w/DVD, 5 <sup>th</sup> 14 Ed.	9780826912268	78.85
INST 0281	Electrical Automation Theory	Ugly's Electric Motors + Controls 2017, 17 <sup>th</sup> Ed.	9781284119428	11.45
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
<b>TOTAL</b>				<b>\$596.25</b>

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

Course	Course Title	Fee
ESET 0100L	Engineering Technology Orientation Laboratory	75.00

Course	Course Title	Fee
ESET 0101L	Electrical Circuits I Laboratory	55.00
ESET 0102	Electrical Circuits II	50.00
ESET 0102L	Electrical Circuits II Laboratory	25.00
ESET 0110L	Introduction to Process Control Laboratory	50.00
ESET 0140	Applied Technical Intermediate Algebra	20.00
INST 0282	Electrical Automation Laboratory	275.00
INST 0293	Process Measurement and Control Laboratory	200.00
MATH 1153	Statistical Reasoning	5.00
<b>TOTAL</b>		<b>\$755.00</b>

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

Quantity	Description	Cost
1	Small adjustable wrench	3.00
1	Wire stripper	8.00
1	Needle nose pliers	5.00
1	Slip joint pliers	5.00
1	Diagonal cutter	7.00
1	Crimper/cutter	8.00
1	Digital Multimeter: Cen-Tech 37772 Specifications: DC Voltage: 400 mV to 750 V DC Current: 400 A to 10 A Resistance: up to 40 M AC Voltage: 400 mV to 750 V AC Current: 400 A to 10 A Input Impedance: 10 MOhm IEC Safety Ratings: CAT II: 1000 V, CAT III: 600 V	25.00
1	Small tool box or tool bag (with lock)	15.00
1	Safety glasses	8.00
1	Alligator clip test leads	8.00
1	Slotted and Philips screw drivers set	10.00
1	Flash (jump) drive (4GB or higher)	10.00
1	Lab Notebook: Bound, graph ruled (11.75 x 9.375)	16.00
1	Scientific Calculator: Casio Fx-115ES Plus	16.00
1	Laptop/Notebook Computer: Wifi ready, large hard drive, Windows 10, Microsoft Office Suite	700.00
<b>TOTAL</b>		<b>\$844.00</b>

## Summary

Tuition	\$15,744.00
Books	\$596.25
Fees	\$755.00
Tools/Supplies	\$844.00
Program Total	\$17,939.25