

Book & Tool List

ROBOTICS AND COMMUNICATIONS SYSTEMS ENGINEERING TECHNOLOGY

Advanced Technical Certificate: Laser/Electro-Optics Technology

Book List for ATC – Laser/Electro-Optics Technology

Course	Course Title	Book Title	ISBN	Cost
RCET 0153A	Basic Electricity and DC Circuit Theory	Electronics and Computer Math, 8 th 6 Ed.	9780131711372	144.45
RCET 0153A	Basic Electricity and DC Circuit Theory	Electronics Fundamentals: Circuits, Devices and Applications, 9 th 22 Ed.	9780135583739	44.99
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
PHYS 1101	Elements of Physics	EBK Applied Physics, 11 th Ed.	9780134241142	64.99
TOTAL				\$355.00

Course Fees for ATC – Laser/Electro-Optics Technology

Course	Course Title	Fee
RCET 0155A	Basic Electricity and DC Circuit Lab	50.00
RCET 0155B	Basic Electricity and AC Circuit Lab	80.00
RCET 0156A	Analog Control Devices Laboratory	60.00
RCET 0156B	Digital Control Devices Laboratory	40.00
RCET 0253	Systems Analog and Digital Laboratory	75.00
RCET 0271	Introduction to Lab Simulation Software	35.00
RCET 3332	Laser Systems and Optics Laboratory	35.00
TOTAL		\$375.00

Other Fees for ATC – Laser/Electro-Optics Technology

Description	Fee
Locker deposit	5.00

Description	Fee
TOTAL	\$5.00

Tools/Supplies for ATC – Laser/Electro-Optics Technology

Quantity	Description	Cost
1	Laptop/Notebook Computer (No MAC or Linux OS) Specifications: Processor: 15 Memory (RAM): 4GB Hard Drive: 250GB Optical Drive: CD-RW/DVD Wireless: 802.11 b/g Ethernet: 1 GB Battery Life: 3-4 Hours Warranty: 3 Years Operating System: Windows 10 Software: MS Office, Office Suite	1,000.00
1 or 2 for each semester	Tops Computation Notebook #35126 (Available in Tech Office)	10.00
1 for each semester	Single subject spiral notebooks	3.00
1	Jump drive, 8GB or higher	20.00
1	Digital Micrometer 6"	2.00
1	Tape, metric measure (optional)	5.00
1	Tool Kit (sold by Robotics Club) DMM JMP Wires Safety Glasses ESDTWEEZER Kit Strippers Diagonal Cutter Needle Nose 4-1 Screw Driver Soldering Iron Stand Bread Board Resistor Kit Capacitor Kit Solder Kit Heat Sinks Desoldering Wick Precision Screw Drivers Tool Bag	196.00
1	Digital Volt-Ohm-Millampmeter	70.00

Quantity	Description	Cost
	Specifications:	
	DC Voltage Ranges = 2V, 20V, 200V, 600V	
	Resistance Ranges = >200V, 2K, 200K, 2M, 20M	
	AC Current Ranges = >200Ma, 20a	
	DC Current Ranges = >20A, 200A, 200Ma, 10A	
	Input Impedence = 10-12M	
		TOTAL \$1,306.00

Summary

Tuition	\$14,622.00
Books	\$355.00
Fees	\$380.00
Tools/Supplies	\$1,306.00
Program Total	\$16,663.00