

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 1153A	Basic Electricity and DC Circuit Theory	Emotional Intelligence 2.0 – w/Passcode, 09 Ed.	9780974320625	26.24
ENGL 1101	Writing and Rhetoric I	Rules for Writers (Spiral), 10 th 22 Ed.	9781319244255	56.56
ENGL 1101	Writing and Rhetoric I	Everyone’s an Author: With Readings, MLA – W/Access, 4 th 23 Ed.	9781324045274	57.09
ENGL 1101	Writing and Rhetoric I	Dr. No: A Novel, 22 Ed.	9781644452080	6.99
COMM 1101	Fundamentals of Oral Communication	Fund. Of Oral Communication Access Code	9781644850817	78.57
PHYS 1101	Elements of Physics	Perusall Access – College Physics 1E, 16 Ed.	9781947172012	14.27
TOTAL				\$239.72

Course Fees for ATC – Laser/Electro-Optics Technology

Course	Course Title	Fee
RCET 1155A	Basic Electricity and DC Circuit Lab	50.00
RCET 1155B	Basic Electricity and AC Circuit Lab	80.00
RCET 1156A	Analog Control Devices Laboratory	60.00
RCET 1156B	Digital Control Devices Laboratory	40.00
RCET 2253	Systems Analog and Digital Laboratory	75.00
RCET 2268	Radio Frequency Transmission Lab	50.00
RCET 2271	Introduction to Lab Simulation Software	35.00
RCET 3332	Laser Systems and Optics Laboratory	35.00
TOTAL		\$425.00

Other Fees for ATC – Laser/Electro-Optics Technology

Description	Fee
Locker deposit	5.00
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	PACE Soldering Tip	24.00
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	196.00

Quantity	Description	Cost
	Precision Screw Drivers	
	Tool Bag	
1	Digital Volt-Ohm-Millampmeter	70.00
	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	\$1,330.00

Summary

Tuition	\$15,521.25
Books	\$239.72
Fees	\$430.00
Tools/Supplies	\$1,330.00
Program Total	\$17,520.97

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