

IDAHO STATE UNIVERSITY COLLEGE OF TECHNOLOGY

PROGRAM TITLE: ELECTRONIC SYSTEMS TECHNOLOGY**BOOK AND TOOL LIST**

Textbooks may be purchased at the University Bookstore located at the Pond Student Union - Building #14. Textbooks may also be purchased or reserved on-line through www.efollett.com or the bookstore's website at www.isu.edu/bookstor. Payments may be made with cash, check, VISA, Mastercard, American Express, or Discover. A shipping charge will be added for mail orders. See the bookstore's website for more information on purchasing or reserving books or for refund policy information. **Save Your Receipts!**

Approximate total book and tool costs for this program's options are listed below.
Additional book costs will vary depending on the courses taken to fulfill
general education requirements for the AAS degree.
For a breakdown of books by individual class requirements, you must check your course curriculum.

NOTE: PRICES ARE SUBJECT TO CHANGE AT ANYTIME WITHOUT PRIOR NOTIFICATION

****SEE INSTRUCTOR BEFORE PURCHASING****

FIRST SEMESTER – ELECTRONICS CORE

I. BOOKS & SUPPLIES:

DESCRIPTION	APPROXIMATE PRICE	
ELECTRONICS & COMPUTER MATH	0131711372	149.00
GROB'S BASIC ELECTRONICS	0072974751	137.00
Engineering Computational paper		7.00
Single subject spiral notebook		3.00
Jump Drive		20.00
Lab Book		14.00
Lab Lock Deposit (refundable at the end of 2 nd Semester)		(5.00)
TOTAL BOOKS & SUPPLIES – FIRST SEMESTER		\$330.00

II. LAPTOP/NOTEBOOK COMPUTER:

MINIMUM CONFIGURATION GUIDELINES

Processor	Intel Core 2 Duo processor T5500 (1.66GHz)
Memory (RAM)	2GB
Hard Drive	80GB
Optical Drive	CD-RW/DVD
Wireless	802.11b/g
Ethernet	1Gb
Battery Life	3-4 hours
Warranty	3 years
Operating System	Windows Vista Home Premium
Software, Office Suite	MS Office Pro 2007

Laptop/Notebook Computer and Software (approximate minimum cost)	\$890.00
---	-----------------

ISU Bookstore offers the Windows Vista operating system upgrade for \$90.00 and MS Office Professional 2007 for \$200.00. (Check with Bookstore for updated prices.)

Computer Account (needed on all wireless computers). Purchase at Rendezvous Building (#38) Computer Lab or Business Administration Building (#5) Basement A18.	\$25.00
---	----------------

****NOTE: DO NOT PURCHASE TOOLS UNTIL AFTER STUDENT ORIENTATION****

III. TOOLS

DESCRIPTION	APPROXIMATE PRICE
Wire stripper	4.50
Diagonal Pliers	12.00
Needle/long nose pliers 4 1/2"	10.00
Screwdriver, slotted 3/16 & 1/4" tips	6.25
Screwdriver, Phillips #0 & #1 tips	6.50
Screwdriver, Precision/Jewelers set	5.00
Alligator clip leads	4.20
Soldering Aide	3.25
Soldering Iron/pencil 25 Watt (or less) with holder	25.00
Solder, 1/4 lb 60-40 Rosin Core	4.25
Solder wick (braided flat copper wire)	3.75
Desoldering bulb or pump, 060820 Electronix Express or equivalent	6.00
Circuit board holder, Helping Hands	8.10
Safety glasses	8.00
Proto Board or Bread Board	25.00
Scientific Calculator	15.00
Tool Box with lock (large enough to store volt-ohm meter)	20.00
Digital Volt-Ohm-Millampmeter (see specifications below)	65.00
TOTAL TOOLS – FIRST SEMESTER	\$231.80

DIGITAL VOLT-OHM-MILLAMPMETER SPECIFICATIONS:

DC Voltage ranges = 2V, 20V, 200V, 600V
 Resistance ranges = >200Ω, 2KΩ, 200KΩ, 2MΩ, 20MΩ
 AC Current ranges = >200mA, 20A
 DC Current ranges = >20μA, 200μA, 200mA, 10A
 Input Impedance = 10 – 12 MΩ

APPROXIMATE TOTAL BOOKS, COMPUTER, AND TOOLS - FIRST SEMESTER	\$1,476.80
--	-------------------

SECOND SEMESTER - ELECTRONICS CORE**I. BOOKS & SUPPLIES**

DESCRIPTION	APPROXIMATE PRICE	
ELECTRONIC DEVICES:CONV CURRENT VERS (W/CD)	0132429733	140.00
DIGITAL ELECTRONICS (W/2 CDS)	0132435789	137.00
Engineering Computational paper		7.00
Single subject spiral notebook		3.00
TOTAL BOOKS & SUPPLIES – SECOND SEMESTER		\$287.00

Computer Account (needed on all wireless computers). Purchase at Rendezvous Building (#38) Computer Lab or Business Administration Building (#5) Basement A18.	\$25.00
---	----------------

II. TOOLS

DESCRIPTION	APPROXIMATE PRICE	
Radio Kit (Available from the Program)		25.00
Heat Sink, GC 9077 or equivalent		1.25
Soldering aide tool, GC 9075 or equivalent		2.25
Solder wick (for de-soldering), GC 684/685 or equivalent		3.75
*Solder, 60/40 Rosin Core only, 1/4 lb reel (18GA)		4.25
*Solder Flux paste (non-acid)		3.25
TOTAL TOOLS – SECOND SEMESTER		\$39.75

*These items were purchased for 1st Semester, but additional quantities may be needed.

APPROXIMATE TOTAL BOOKS AND TOOLS - SECOND SEMESTER	\$351.75
--	-----------------

APPROXIMATE TOTAL BOOKS, COMPUTER, AND TOOLS – CORE YEAR	\$1,828.55
---	-------------------

THIRD SEMESTER - SYSTEMS ANALOG/DIGITAL**I. BOOKS & SUPPLIES**

DESCRIPTION	APPROXIMATE PRICE	
ELSY 251 SYSTEMS ANALOG & DIGITAL THEORY		
INTRO TO MECHATRONICS & MEASUREMENT SYSTEMS	0072963052	177.00
ELSY 253 SYSTEMS ANALOG & DIGITAL LABORATORY		
Class fee (ELSY 253)		15.00
ELSY 264 INTRODUCTORY CALCULUS		
TECHNICAL CALCULUS (W/CD)	0130488183	166.00
ELSY 265 COMPUTER FUND & INTRO TO PROGRAMMING		
PROGRAMMING IN VB NET 2005 EDITION (W/3 CDS)	0073304274	102.00
ELTR 269 ELECTRONIC DRAFTING I		
Class fee (ELTR 269)		15.00
Jump Drive		20.00
2 ea Notebook, Computation, National 43-649 (purchase prior to 1st day of class)		17.00
APPROXIMATE TOTAL BOOKS & SUPPLIES - THIRD SEMESTER		\$512.00

II. TOOLS - SEE DRAFTING INSTRUCTOR PRIOR TO PURCHASING THE FOLLOWING:

QUANTITY	DESCRIPTION	APPROXIMATE PRICE
1 ea	Disk, Floppy	2.00
1 ea	Eraser, Pencil (Faber Castell)	3.00
1 ea	Guide, Ames Lettering	2.00
1 pkg	Pencil, Lead 0.5 mm, H and 7H	2.00
1 pkg	Pencil, Lead 0.7 mm, H	1.00
1 ea	Pencil, Mechanical 0.5 mm	6.00
1 ea	Pencil, Mechanical 0.7 mm	6.00
1 ea	Scale, Architect's	7.00
1 roll	Tape, Drafting	1.00
1 ea	Template, Circle	7.00
1 ea	Template, Electronic Symbol, R 375 or R 301	8.00
1 ea	Triangle, 45	7.00
APPROXIMATE TOTAL TOOLS - THIRD SEMESTER		\$52.00

APPROXIMATE TOTAL BOOKS & TOOLS - THIRD SEMESTER	\$564.00
---	-----------------

FOURTH SEMESTER - RADIO FREQUENCY**I. BOOKS & SUPPLIES**

DESCRIPTION	APPROXIMATE PRICE	
ELSY 267 RADIO FREQUENCY TRANSMISSION THEORY		
ANTENNA HANDBOOK (W/Software)	0872599043	40.00
ELECTRONIC COMMUNICATION (Optional)	0070571570	(127.00)
MODERN ELECTRONIC COMMUNICATION (W/CD)	0131130374	112.00
RF CIRCUIT DESIGN	0750699469	38.00
RADIOMAN'S MANUAL OF RF DEVICES, PRINCIPLES, & PRACTICES	1884932452	75.00
ELSY 268 RADIO FREQUENCY TRANSMISSION LABORATORY		
Class fee (ELSY 268)		15.00
ELSY 270 ELECTRONIC DRAFTING II		
Class fee (ELSY 270)		15.00
Jump Drive		20.00
Disk, 3.5" computer, DS/HD floppy for ORCAD		1.00

Drafting Supplies (previously purchased in Third Semester)	n/a
Notebook, Computation, National 43-648 or 43-649	8.00
APPROXIMATE TOTAL BOOKS & SUPPLIES - FOURTH SEMESTER	\$324.00

SUMMER SESSION - LASER/ELECTRO-OPTICS TECHNOLOGY

I. BOOKS & SUPPLIES

DESCRIPTION	APPROXIMATE PRICE
ELSY 331 LASER/ELECTRO-OPTICS THEORY	
GEOMETRIC OPTICS LIGHT SOURCE AND WAVE OPTICS	69.00
INTRODUCTION TO LASER	61.00
LASER/ELECTRO-OPTIC DEVICES (Optional)	(55.00)
1 ea Tape, metric measure (Optional)	(5.00)
APPROXIMATE TOTAL BOOKS - SUMMER SESSION	\$130.00

FIFTH SEMESTER – DIGITAL

I. BOOKS & SUPPLIES

DESCRIPTION	APPROXIMATE PRICE
ELSY 371 ADVANCED MATH FOR ELECTRONICS	
PRACTICAL GUIDE TO THE UNIX SYSTEM	0805375651 76.00
VISUAL BASIC 6: HOW TO PROGRAM (W/CD)	0134569555 90.00
Class fee (ELSY 371)	15.00
ELSY 373 ADVANCED DIGITAL THEORY	
Notebook, Computation, National 43-648 or 43-649	8.00
APPROXIMATE TOTAL BOOKS & SUPPLIES - FIFTH SEMESTER	\$189.00

II. TOOLS

QUANTITY	DESCRIPTION	APPROXIMATE PRICE
1 ea	Template, Logic, Picket #1222I or Archer #276-186	7.00
1 ea	Template, IBM Flow Charting	4.00
APPROXIMATE TOTAL TOOLS - FIFTH SEMESTER		\$11.00

APPROXIMATE TOTAL BOOKS & TOOLS - FIFTH SEMESTER	\$200.00
---	-----------------

SIXTH SEMESTER – PULSE**I. BOOKS & SUPPLIES**

DESCRIPTION		APPROXIMATE PRICE
ELSY 372 CALCULUS FOR ADVANCED ELECTRONICS Previously purchased		
ELSY 374 ADVANCED PULSE LABORATORY		
Class fee (ELSY 374)		15.00
2 ea	Disks, 3.5" Floppy	5.00
1 ea	Notebook, Computation, National 43-648 or Equivalent	8.00
Graduation Application fee for first Certificate/Degree		20.00
Optional fee for any additional Certificate/Degree		(10.00)
APPROXIMATE TOTAL BOOKS & SUPPLIES - SIXTH SEMESTER		\$48.00

APPROXIMATE TOTAL BOOKS & SUPPLIES - 6 SEMESTER AAS	\$2,964.55
--	-------------------

APPROXIMATE TOTAL BOOKS & SUPPLIES - 6 1/2 SEMESTER AAS	\$3,095.55
--	-------------------

<p>ANTICIPATE ADDITIONAL EXPENSES ASSOCIATED WITH THIS PROGRAM: TEXTBOOKS ASSOCIATED WITH ACADEMIC COURSES, TRANSPORTATION, PARKING, CHILD CARE, HOUSING. YOU MUST CHECK YOUR CLASS SCHEDULE TO DETERMINE TEXTBOOKS REQUIRED BY INSTRUCTOR.</p>
