

Gunsmithing Technology Tool List

This is not an exclusive list of suppliers, manufacturers, or part numbers, these are vendors that we have relationships with. Also check online; Amazon, eBay, Google, and local second-hand stores or pawn shops, many similar tools will work. Check for student discounts and compare products, part numbers subject to change at any time. These are estimated costs due to ever changing markets and pricing. Students may encounter other expenses not covered on this list such as optics or other aftermarket accessories they wish to install.

SUPPLIERS

Brownell's 1-800-741-0085 www.brownells.com

Jack First 1-605-343-9544 www.jack-first-gun-parts.myshopify.com

MidwayUSA 1-800-243-3220 www.midwayusa.com

Real Avid www.realavid.com

MSC Industrial Direct 1-800-645-7270 www.mscdirect.com

Oxygen Service Co 1-800-774-1336 www.oxygenservicecompany.com

Wood Workers Supply 1-800-645-9292 www.woodworker.com

Track of the Wolf 1-763-633-2500 www.trackofthewolf.com

Fastenal 1-877-507-7555 www.fastenal.com

Gunstock Blanks by Cecil Fredi 1-702-382-8470 www.gunstockblanks.com

Boyd's Gunstocks 1-605-996-5011 www.boydsgunstocks.com

Cali'Co Hardwoods Inc. 1-707-546-4045 www.calicohardwoods.com

Barrel manufactures offering discounts: Shilen Rifles Inc., Lilja Barrels, Lothar Walther, Hart Rifle Barrels,

McGowen Precision, Bartlien Barrels, Kreiger Barrels, Green Mountain Barrels

First Year Estimated Tool/Supply/Books Costs: \$2500-\$5000

Second Year Estimated Tool/Supply/Books Costs (does not include firearms):

\$1500-\$4500

Program total estimated costs, not including firearms:

\$4000-\$9500

Please note that if there are duplicate tool entries in the following list under different classes, it is not necessary to purchase multiple units. A single unit, such as one screwdriver set is sufficient.

First Year Class Required Tools and Supplies

Rifle Design and Theory, Shotgun Design and Theory, Semiautomatic Design and Theory, Handgun Design and Theory, Intro to CAD

DESCRIPTION	SUPPLIER	MANUFACTURER	PART#	EST. COST
Laptop computer (high end version needed for Intro to CAD, if taking it)	PTCC Bookstore			\$800-\$1200
Safety glasses/goggles w/Z87 rating	Various	Various		\$2-\$10
Toolbox, 8 or 11 drawers	Various	Kennedy, etc.	Max 12" deep	\$150-\$800
Screwdriver set	Various	Weaver 88 piece Gunsmith Tool Deluxe	849719	\$80
	Brownells, MidwayUSA	Wheeler 89-piece Pro Gunsmith set	562194	\$90
	Brownells	Brownells Magna Tip Master set Plus	080-112-081WB	\$180
	Brownells, Real Avid	Real Avid Smart Drive 90	AVSD90	\$100
Drive Pin Punch set	Various	Starrett	S565	\$71
	Various	Real Avid Accu-Punch hammer and punches	AVHPS	\$40
	Obsidian Arms	Obsidian Arms Drive Pin Punch Set 8-piece	OA-DPPS-8	\$45
Roll Pin Punch Set	Various	Brownells Roll Pin Punch Bench Set	080-000-651WB	\$115
	Brownells, MidwayUSA	Wheeler Roll Pin Punch Set	204513	
Bench Block	Brownells	Brownells XL Rifle Bench block	080-000-492WB	\$22
Soft Vise Jaws	Brownells	Rubber faced vise jaws	080-827-000WB	\$32
	MSC	Wilton 4" fiber jaws	09208182	\$48
4 oz. Ball peen hammer	Various			\$5 - \$25
18-24 oz. Dead blow hammer	Various			\$10 - \$20
1/2" x 1/2" x6" India Stone, Medium	Brownells	Norton	657-246-146WB	\$13
1/2"x1/2"x6" India Stone, Fine	Brownells	Norton	657-246-246WB	\$13
Magnetic Parts Tray	Harbor Freight	Large and small		\$5 - \$10
6" Pliers		other common size is fine		\$10 - \$20
6" Needle Nose Pliers		other common size is fine		\$10 - \$20
6" Vise Grip Type Pliers		other common size is fine		\$10 - \$20
Smooth Jaw Parallel pliers	Brownells	Grobet flat nose smooth jaw	46.512	\$35
Socket set		standard and metric		\$10 - \$50+
Socket set extension set		at least 1 each of 1" and 2"		\$5 - \$10
Brush & Dustpan				\$5 - \$10
Allen Wrench Set, SAE	Various	Bondhus, Eklind		\$10-\$20
Allen Wrench Set, metric	Various	Bondhus, Eklind		\$10-\$20
Gun Cleaning Kit		Go to Walmart		\$20-\$50+
Small Telescoping Magnetic Pickup Tool				\$5-\$15
Metal Dental Picks				\$5-\$25

Drill and Tap Kit with 3-56, 6-48, 8-40	Brownells #1 or #2 kit works	080-564-004WB 080-564-002WB	\$125-\$150
3/8" or 1/4" Cratex Rod			\$10-\$25

Measuring Tools, Machine Fundamentals 1

DESCRIPTION	SUPPLIER	MANUFACTURER	PART#	EST. COST
60 Degree Dovetail File	Brownells	Brownells #1 or #2 is fine	080-648-060WB 080-648-160WB	\$55
File Card Cleaner				\$5-\$15
0-6" Dial Caliper				\$30-\$100+
12" Adjustable Wrench				\$7-\$30
8" Mill Bastard Cut File *	MSC	Nicholson	80755218	\$20
12" Lathe File *	MSC	Nicholson	80765027	\$20
American Pattern File Set (can replace above 2 files)		Nicholson	22030HNN	\$40
Needle File Set				\$5-\$30
Torx wrench set				\$10-\$20
Feeler Gauge Set	MSC	Must go down to .001"		\$10-\$25
American Screw Pitch Gauge	MSC			\$10-\$20
Metric Screw Pitch Gauge	MSC			\$10-\$20
Dykem Layout Fluid	MSC	ITW	00264044	\$10-\$20
6" Flexible Ruler	MSC			\$10-\$20
Scribe	MSC	General	76498898	\$10-\$20
India Stone Combination	MSC	Norton	05139605	\$10-\$60
1" and 2" chip brushes	Various	3-5+ recommended		\$1 - \$10
Handheld drill \$20-\$100+		corded or cordless is fine		\$20-\$100+
Machinists Drill bit set	MSC	115 Piece set preferred	More expensive is more better here	\$25-\$110
1-2-gallon shop vac	Various	Used for clean-up in lab		\$20-\$50
Painters' tape		at least 1 each of 1" and 2" wide		\$5-\$15
3/8" HSS Lathe Blanks-10 each MSC	MSC	Also available from bookstore	02603249	\$25-\$100
3/4" Double Ended HSS, 2 Flute MSC	MSC	Hertel	41115593	\$50-\$60
1/4" Double Ended HSS, 2 Flute	MSC	Hertel	41115445	\$20-\$30
1/2" Double Ended HSS, 2 Flute	MSC	Hertel	41115528	\$30-\$35
#1-5 Center Drill Set	MSC	various		\$25-\$50
0-1", 1-2", 2-3" Outside Micrometer set	MSC	.0001 graduation	various	\$40-\$160
Edge Finder	MSC	SPI	03293420	\$10-\$30
Deburring Tool	MSC	Shaviv	05751003	\$15-\$20
Steel Protractor	MSC		06475198	\$20-\$30
Mighty Mag	MSC		06580450	\$20-\$30
1" Travel Indicator	MSC			\$25-\$50
Test Indicator with magnetic base	MSC			\$100-\$200
Center Gauge 60 Degree	MSC			\$10-\$20

12" 4-piece Combination Square Set	MSC	\$100-\$200
Spray Bottle 16-32 oz.	Wherever you can find it	\$5-\$10
Thread Wires 48-3 TPI	MSC	\$30-\$50
Set of Thin Parallel Bars	MSC	\$100-\$200

Note that many of the tools required in the Machining Fundamentals section will be used for multiple classes in Year 2.

Second Year Class Required Tools and Supplies

Riflesmithing, Barreling and Chambering, Pistolsmithing, Shotgunsmithing

Description	Supplier	Manufacturer	Part #	Est. Cost
Center gauge, 55 Degree	MSC			\$20-\$30
Recoil Pads, minimum of 3, at least ½" thick.	Brownells, MidwayUSA, etc.	Pachmayr, Limbsaver, Kick-eez, etc.		\$20-\$40/ea.
Ramped rifle front sight base	Brownells, MidwayUSA, etc.	Marble Arms Williams Gun Sights	Various	\$40
2nd year students are required to supply at least 2 bolt action rifles that will be blueprinted and rebarreled as well as supplying any aftermarket accessories such as optics, muzzle brakes, triggers, etc. 1 of these rifles is a good candidate for 1 Piece stockmaking and refinishing.				
2nd year students are required to supply at least 1 shotgun that will be modified and customized for increased performance and fitting, students must also supply any aftermarket accessories such as choke tubes, sights, etc. This shotgun is a good candidate for 2 Piece stockmaking and refinishing.				
2 nd year students are required to supply at least 1 1911 style handgun, either in its entirety for modification, or as an unbuilt collection of frame, slide, and parts.				
2nd year students are required to supply at least 2 firearms for refinishing, including bluing and a spray on finish. These firearms may be the same as those in the previous three entries above.				
2 or more rifle barrel blanks in caliber of student's choice				\$100-\$600+/each
2 or more choke tubes, wait until Shotgunsmithing class for measurement requirements				\$25-\$50/each
0-3" or 4" Depth Micrometer with 1/8th inch flat end rod				\$100-\$200
1 Piece stock blank Walnut, Maple, or Laminate				\$100+
2 Piece Stock blank Walnut, Maple, or Laminate				\$100+
6" Round Bastard Cut File				\$20
4" Round Bastard Cut File				\$20
10" Half-Round Bastard Cut File				\$20
10" Round Bastard Cut File				\$20
File Handles				\$20
Wood Chisel Set				\$20-\$100+
Wood Carving kit				\$20-\$100+
Cabinet or Farrier Rasp				\$20-\$50
1/4" inch drill bit 12" length minimum				\$10-\$20
Inletting Black or Gold (may be different colors)				\$10-\$20
China Marker				

Stockmaking

Sandpaper for wood and metal -at least 5 sheets each of 120,220, 320, 400, 600 grits	\$25+
1 Piece stock blank Walnut, Maple, or Laminate	\$100+
2 Piece Stock blank Walnut, Maple, or Laminate	\$100+
6" Round Bastard Cut File	\$20
4" Round Bastard Cut File	\$20
10" Half-Round Bastard Cut File	\$20
10" Round Bastard Cut File	\$20
File Handles	\$20
Wood Chisel Set	\$20-\$100+
Wood Carving kit	\$20-\$100+
Cabinet or Farrier Rasp	\$20-\$50
1/4" inch drill bit 12" length minimum	\$10-\$20
Inletting Black or Gold (may be different colors)	\$10-\$20
China Marker	\$5-\$10
Stock finish product, Tru-Oil or Permalyn finish	\$25+
Hand Planer	\$25-\$50
5/8" and 3/4" Barrel Bedding Tools	\$30-\$40 each
Cold Blue Solution (may be a liquid or paste in a jar, or a pen applicator)	\$10-\$40
0000 Steel Wool	\$10-\$20
Scotch-Brite pads (gray-fine)	\$2-\$20
Spray on firearm finish- minimum of 4oz Duracoat, Cerakote, or KG Gunkote	\$20-\$50
Hydrodip film, base coat, activator, and clear coat- minimum of 1 yard of film (available in kits online)	\$50+

Gunsmith Welding and Metallurgy

Welding supplies including gloves, helmet, welding jacket or sleeves, safety toe boots	\$100-\$300
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First Year Required Books

Available in the campus bookstore:

GUN DIGEST SERIES: AUTHOR: ISBN#

SHOTGUNS ASSEMBLY/DISASSEMBLY MURAMATSU, K ISBN 978-1440230714	\$25-\$35
CENTERFIRE RIFLES ASSEMBLY/DISASSEMBLY MURAMATSU, K ISBN 978-1440235443	\$25-\$35
RIMFIRE RIFLES ASSEMBLY/DISASSEMBLY MURAMATSU, K ISBN 978-1440245848	\$25-\$35
AUTOMATIC PISTOLS ASSEMBLY/DISASSEMBLY MURAMATSU, K ISBN978-1440245008	\$25-\$35
REVOLVERS ASSEMBLY/DISASSEMBLY WOOD, JB ISBN 978-1440214523	\$25-\$35

MACHINE FUNDAMENTALS I

- TEXT AND WORKBOOK TITLES; PRECISION MACHINING TECHNOLOGY - SECOND EDITION_ AUTHORS: PETER J. HOFFMAN, ERIC S. HOPEWELL, BRIAN JANES AND KENT M. SHARP, JR.
- TEXT TITLE; SHOP REFERENCE FOR STUDENTS AND APPRENTICES AUTHOR: EDWARD G. HOFFMAN AND CHRISTOPHER J. MCCAULEY

VSP/A SHOP MANUAL SERIES:

THE MAUSER M91-M98 BOLT ACTIONS KUHNHAUSEN, J ISBN 978-9993964001	\$40-\$50
THE COLT 45 AUTOMATIC KUHNHAUSEN, J ASIN# B010VXI7BY	\$40-\$50
THE REMINGTON M870-M1100/M11-87 SHOTGUNS KUHNHAUSEN, J ASIN#B001TNY9QS	\$40-\$50
THE S&W REVOLVER KUHNHAUSEN, J ASIN# B00QSFM5VI	\$40-\$50
THE RUGER SINGLE ACTION REVOLVER KUHNHAUSEN, J ASIN# B000KMTGDA	\$40-\$50
THE COLT DOUBLE ACTION REVOLVERS KUHNHAUSEN, J ASIN# B000IXMGDS	\$40-\$50
THE U.S. .30 CALIBER GAS OPERATED SERVICE RIFLES KUHNHAUSEN, J ASIN# B0006F5XOW	\$40-\$50

Second Year Required Books

STOCK WORK FOR THE BEGINNER	S.L. MAYS	Brownells, 4DRENTALS Rentals	\$30-\$40
CHAMBERING RIFLES FOR ACCURACY	FRED ZEGLIN	4DRENTALS.COM	\$40
THE ACCURATE MUZZLE BRAKE	TROY NEWLON	NEWLON PRECISION	\$30
UNDERSTANDING HEADSPACE FOR FIREARMS	FRED ZEGLIN	4DRENTALS.COM	\$25
GUNSMITH TOOLS CUTTERS AND GAUGES – A PRIMER	FRED ZEGLIN	4DRENTALS.COM	\$13

REQUIRED BOOKS: \$310-\$600

ADDITIONAL ITEMS RECOMMENDED (NOT REQUIRED)

Rolling Tool Cabinet, no larger than 32" (check with instructor for storage before bringing)

Some books may be out of print. Any books on gunsmithing you can find will always be helpful

NRA Assembly Guide Books: Centerfire and Rimfire Rifles; Shotguns; Pistols and Revolvers

Brownell's Encyclopedia

Gunsmithing, Dunlap: R ISBN: 978-0-8117-0770-1

Gun Digest Exploded Gun Drawings: Zeglin, F. ISBN: 9781951115180

Jack First Catalog Set

The Gunsmith Machinist, book one and two Acker, S.

Machinery's Handbook Industrial Press Publishing

The Complete Metal Finishing Book

1/2" Brazed Turning Tool Brazed or indexable

60° Included Angle Threading Tool

Carbide indexable lathe tooling

1/2" diameter or smaller boring bar

Drill Point Gauge

24 oz. Ball Peen Hammer

Radius Gauge Set

6 pc. Telescoping Gauge Set

Tap and Die Set, incl. ¼-20 through ½-13 Screw Thread

Micrometer 1"-2"

TiN Coated or Carbide End Mill Set

Screw extractor and drill set

Firing Pin Protrusion Gauge

Hex Key Screwdriver Extensions

Small box end Wrench kit

Flashlight