

GSM 111 and GSM 120 (Gunsmithing I)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
Magna-Tip Screwdriver Set	Brownells	80112081	\$81.99	Choose one of either of these sets
Wheeler Screwdriver Set	Amazon	Amazon Link	\$74.99	
Pin Vise	Amazon	Amazon Link	\$15.22	
(2+) Tekton 1/16 Punch	Amazon	Amazon Link	\$6.00	Order AT LEAST Two of these
Tekton Punch/Roll Pin Punch Set	Amazon	Amazon Link	\$60.00	
Brownell's Gunsmith Hammer	Brownells	818600100	\$32.99	Choose one of either of these sets
Wheeler Double Face Hammer	Amazon	Amazon Link	\$22.89	
5/8" Threading Tool (Uses HSS or carbide inserts)	Mesa Tool	Mesa Tool Link	\$51.00	Uses TNMC-32 HSS or Carbide inserts
5/8" Turning & Boring Kit (Uses HSS or carbide inserts)	Mesa Tool	Mesa Tool Link	\$40.00	Uses DPGB-321 HSS or Carbide inserts
Additional Inserts for the Mesa Tooling listed above	Mesa Tool	Mesa Tool Link	Varies	Replacements as needed for the above inserts
Grobet Needle File Set	Amazon	Amazon Link	\$63.90	
Chamfer Tool	Amazon	Amazon Link	\$9.79	
Prices for MSC Items are Shown at a Discounted Rate. Contact Your Advisor to Set Up an Account with MSC.				<i>MSC has a package deal that condenses all of these items into one SKU. Contact your Advisor for instructions on this.</i>
Bondhus Allen Wrenches inch	MSC	5051586	\$22.67	

Bondhus Allen Wrenches metric	MSC	30574297	\$46.39	
8" Flat Pillar File, Grobet	MSC	60210424	\$49.68	
6" Mill File, Nicholson	MSC	80755127	\$14.14	
File Handles, 3 piece set, Nicholson	MSC	48654107	\$9.28	
6" Triangle File, Nicholson	MSC	80761141	\$9.02	
8 piece File Set, Nicholson	MSC	60304896	\$243.93	
6" Round File, Nicholson	MSC	80758113	\$11.41	
8" Round File, Smooth Cut, Nicholson	MSC	80758238	\$17.53	
Dykem layout fluid (Blue)	MSC	264036	\$17.54	Red is also an option
6" Dial calipers	MSC	84477736	\$143.00	Mitutoyo listed, can be substituted.
0-1" Outside Micrometer 0.0001" Graduations	MSC	6231658	\$134.00	Mitutoyo listed, can be substituted.
0-3" Starrett Depth Micrometer	MSC	86418340	\$431.04	Starrett 449AZ-3R
1" Range 0.001" Dial Indicator SPI	MSC	38000154	\$63.99	SPI (2 Suggested)
Parallel Set, 1/8" Thick 1/2 to 1-5/8 height, 6" long	MSC	6820898	\$139.33	Value Collection
Single End Edge Finder	MSC	3293420	\$15.89	SPI Listed
Thread Pitch Gauge Inch 4 to 48 TPI Range	MSC	6489512	\$34.93	
Thread Pitch Gauge Metric, .25 to 2.5mm Range	MSC	1221019	\$20.77	

6" 4R Steel Rule, 1/64, 1/32, 1/16, 1/8	MSC	78988771	\$7.08	SPI Listed
4 Piece Combination Square Set 12" 4R Graduations,	MSC	9904905	\$138.18	Value Collection
115 Piece Index Drill Bit Set, 1/16 - 1/2 by 64ths, A-Z, 1-60	MSC	1186709	\$212.10	
KEO 5 Piece Center Drill Set	MSC	1031558	\$55.79	
(3) 3/8" HSS Tool Bits (Blanks To Grind)	MSC	2603249	\$8.08	You will need 3
(3) 1/2" HSS Tool Bits (Blanks To Grind)	MSC	2603322	\$15.79	You will need 3
End mill 20 Piece Set	MSC	92000439	\$296.16	Interstate Brand
Lathe center gauge 60 degree	MSC	81885840	\$11.12	SPI Listed
Feeler Gauge Set, 26 Piece .00015"-.02500" thickness	MSC	6588305	\$16.70	Value Collection
2 Piece Noga Deburring Tool, S10 Blades	MSC	67294512	\$6.15	
X-acto knife	MSC	19545599	\$4.13	
Knife blades	MSC	19539063	\$31.01	
Welding Gloves	MSC	6528160	\$19.34	Cowhide, Cotton Lined Welding Gloves
5 piece Plier set	MSC	56339609	\$144.57	Crescent
Stainless Steel Brush, 1-1/2x1/2 inch	MSC	9301714	\$2.53	pack of 4
Mitutoyo 513-403 .0001" Test Indicator	MSC	62496849	\$191.00	2 Required
Noga Indicator Base, 60mmx50mm	MSC	74100975	\$183.54	2 needed

12" Hacksaw Frame	MSC	87656062	\$15.84	Stanley Brand
Bi Metal Hacksaw Blades 32 tpi	MSC	47745229	\$1.48	Lenox Brand you will need several
Ballpeen hammer – 16oz	MSC	40973562	\$22.82	
Safety glasses	MSC or Hardware stores	74169681	\$1.74	
Metal scribe – carbide tipped	MSC or Hardware stores	6945596	\$5.10	Moody Tools Brand, can be substituted
10" Adjustable Wrench, 1-5/16 Opening	MSC or Hardware stores	79322038	\$22.00	
Set of pad locks for lockers	MSC or Hardware stores	67845909	\$15.75	You will need 2 locks
(2) Bearings, 12mm Bore, 32mm OD	MSC	35434364	\$3.94	You will need 2 bearings
Tap Handle	MSC or Hardware stores	6990139	\$51.61	This is a 2 piece set
Tap Guide	MSC	95267472	\$27.44	#0 to 1" Tape Guide
Dremel Tool Kit	MSC or Hardware stores	81160418	\$69.57	
Dial Drop Indicator, 0.001" Graduations	MSC	76422369	\$113.91	SPI Listed
Miscellaneous Tool Costs				
GSM 111 Lab Fee for Shop Materials	Montgomery Comm. College		\$50.00	
Machining Textbook	Montgomery Comm. College		\$100.00	
GSM 120 Lab Fee for Shop Materials	Montgomery Comm. College		\$100.00	

GSM 125 (Barrel Fitting/Alteration)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
Starrett 135A Level	MSC	58695891	\$36.15	
Accupro LH Boring Bar	MSC	76419126	\$27.31	2 needed
Accupro RH Boring Bar	MSC	5252895	\$27.31	2 needed
Hertel Inserts for .300" Boring Bor	MSC	74160870	\$23.19	Speak with Judith Lamarco for alternative options
Hertel .300" Boring Bar	MSC	82553603	\$184.22	1 needed
1-2" Mitutoyo Outside Micrometer	MSC	6231674	\$125.79	
(2) 6-48 Taper Taps	Brownell's	395648101	\$11.99	
(2) 8-40 Taper Taps	Brownell's	395840101	\$12.99	
(2) 6-48 Bottom Taps	Brownell's	395648103	\$11.99	
(2) 8-40 Bottom Taps	Brownell's	395840103	\$12.99	
Vipers Venom Barrel Chambering Oil	Grizzly Industrial	T10615	\$28.95	
Mineral Spirits	Amazon/ Hardware Store	Amazon	\$18.22	
Barrel Blanks				
(3) Rifle Barrel Blanks (Note:Do not order on your own. Your Rifle Building Instructor Will Advise)	Various		\$175.00- 400.00	<i>Consult Instructor Before Ordering</i>

Actions/Receivers

A Remington 700 action is required for your first rifle build			\$400 and up	<i>Chosen caliber will dictate action length and bolt face</i>
Some of the suitable examples for your second and third builds are: CZ 550, CZ 527, Winchester 70, Mauser 98, Howa 1500, Tikka T3, etc. The MCC Gunsmithing Club will occasionally do a group purchase at a reduced cost.	Varies		\$250.00-600.00	<i>NOTE: You are advised to speak with your rifle building instructor prior to purchasing any action</i>

Project Specific Tools (Refer to Build Sheet/Instructor)

Rifle Muzzle Brakes				
Scope Bases and Rings				
Badger M-16 Style Extractor (If modifying your Rem 700 Bolt) Ask your rifle building instructor	Badger Ordnance or	Brownell's		
GTR Range Rod for Barrel Indicating (Ask rifle building instructor)	Gre-Tan	Gre-Tan Rifles	\$63.00	
Gage Pins for Barrel Indicating (Ask rifle building instructor)	MSC	Pin Gauges		
Caliber Specific Cotton Flannel Patches	Amazon			
Remington 700 Recoil Lug				
Remington 700 Trigger	Triggertech	TriggerTech		

GSM 127 (General Repair)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
Gun Digest Centerfire Rifles Assembly and disassembly	Amazon	ISBN-10: 194626704X	\$70.00-\$80.00	Optional, but highly recommended
Gun Digest Book of Automatic Pistols Assembly/Disassembly	Amazon	ISBN-10: 1946267317	\$49.95	
Gun Digest Book of Shotguns Assembly/Disassembly	Amazon	ISBN-10: 1440247714	\$37.00-\$70.00	
Gun Digest Book Of Rimfire Rifles Assembly/Disassembly	Amazon	ISBN-10: 1440245843	\$39.99	
Gun Digest Book of Revolvers Assembly/Disassembly	Amazon	ISBN-10: 194626749X	\$39.90	
Gun Cleaning Kit (Upgraded Model)	Amazon	Amazon Link	\$39.99	
Dewey One Piece Cleaning Rod	Amazon	Amazon Link	\$39.99	
Lucas Oil Extreme Duty Oil and Grease	Amazon	Amazon Link	\$16.74	
Rig Grease 3oz	Brownells	167400274	\$5.99	
Gun Sav'r Stock Finish (Hunter Satin)	Brownells	209101014	\$24.99	
60 degree sight file (No.2 cut)	Brownells	80648060	\$49.99	
Black Iron Wire	Lowe's/Hardware Store	Lowe's Link	\$11.84	
Optivisor	Amazon	Amazon Link	\$25.99	
12" Rifle Dovetail Slot Blank	Brownells	80770375	\$18.99	1 12" piece needed
Brownells, Magna Tip Thin-bit set	Brownells	80120000	\$54.99	
6 Piece Screw Driver Set (Flat and Phillips)	Amazon/Local	Amazon Link	\$9.99	
12" screw driver	Amazon/Local	Amazon Link	9.98	
Long Tap Handle Wrench	Amazon/Local	Amazon Link	\$20.69	
Sanding Stick Standard and Finish Kits	Amazon	Amazon Link	\$25.99	80-500 Grit
Wheeler Roll Pin Starter Set	Amazon	Amazon Link	\$28.19	
Boride All Purpose Gunsmithing Stone Kit	Boride Abrasives	Website Link	\$109.15	Consult Your Instructor for Clarification
100 each – Unprimed rifle & pistol brass & shotgun hulls	Reloading supplies		\$25.00 and up	
100 each – Rifle & pistol bullets	Reloading supplies		\$25.00 and up	
100 – Shotgun wads	Reloading supplies		\$15.00	
25 lbs. of shotgun shot	Reloading supplies		\$35.00	
Spring stock	McMaster Carr	9074k193	\$33.00	
1 lb. each – rifle, pistol & shotgun powder	Reloading supplies		Varies	
100 each –Rifle, pistol & shotgun primers	Reloading supplies		Varies	
Long Gun Hard Case	Harbor Freight/Misc	Harbor Freight Suggested Option	\$149.99	Or Similar Style

GSM 235 (Current Gunsmithing Technology)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
Brownells screw driver tips for recoil pads	Brownells	80136000	\$3.99	
1/2 " Gunline barrel bedding tool	Gunline	Weblink	\$140.99	
Chisel Set	Amazon	Amazon Link	\$62.99	
Rig Grease in can, 12 oz.	Brownells	167400458	\$14.99	
PGW Inletting Dye	Precision Gun Works Inc	PGW Inletting Dye	\$4.95	
Gun Stock Finish (Choose one of these 3)	Brownells	Hand Rub High Gloss	\$21.99	Choose based on your preference of sheen and application method
	Brownells	Spray Can Hunter Satin	\$24.99	
	Brownells	HVLP Spray Hunter Satin	\$19.99	
(1) 3M rubber hand sanding block	Amazon/Local	Amazon Suggestion	\$3.99	
5 sheets each – 3M Sandblaster or Klingspore wood sand paper	Lowes	9"x 11"size, 180, 220, 320, 400, 600	\$7.00 pack	Lowes or the Woodworking Shop
5 sheets each – 3M or equivalent, Silicon Carbide wet/dry sand paper	Lowes	9"x 11" size, 180,240, 320, 400,	\$9.00 pack	Lowes or the Woodworking Shop
Modeling clay	Amazon/Wal-mart or Craft Supply	Amazon Link	\$9.55	
Sling swivel studs – 2 sets	Amazon	Amazon Link	\$12.89	
Recoil pad	MCC Gunsmithing Club		\$10.00	Gunsmithing Club has these on site
Semi inletted Wood or Laminate Rifle Stock	Misc	Depends on Rifle Model	\$150.00 & up	To be discussed and planned with instructor
Composite Rifle Stock Drop In Style	Bell and Carlson, Manners, HS Precision	Depends on Rifle Model	\$200.00 & up	To be discussed and planned with instructor
3rd Build Rifle Stock		Depends on Rifle Model	\$220.00	To be discussed and planned with instructor
Pro Bed 2000	Score High Gunsmithing	Score High Gunsmithing	\$25.38	Consult with Len Fagan to Order
Sprayon Mold Release MR311	Amazon	Amazon Link	\$31.38	
Grovtech Flush Cup for QC Swivels (Only if needed, ask instructor)	Brownells	100005661	\$27.99	
Palm and Hand Chisel Carving Set	Amazon	Carving Set	\$29.99	
49 Cabinet rasp	Amazon	Amazon Link	\$47.99	
50 Cabinet rasp	Brownells	191188610	\$65.99	
Small Jerry Fisher Scraper	Brownells	310150001	\$19.99	
Large Jerry Fisher Scraper	Brownells	310150002	\$19.99	
Octagon Jerry Fisher Scraper	Brownells	310150003	\$19.99	
8 oz Rawhide mallet	Amazon	Amazon Link	\$31.99	
Adjustable file handle	Amazon	Amazon Link	\$9.99	
Respirator Half Mask P95 Series 3M	MSC, Auto Parts Store	4489894	\$58.30	04489894 Large 04489886 Medium
Paint Gun for Cerakote and Polane T	Harbor Freight	Harbor Freight Link	29.99	
Ammunition for Test Firing and Grouping 40 rounds per each caliber	Federal, Winchester,	Varies	\$20.00-80.00 per	Brownells, Ammo Seek, Walmart, Local shops
Rifle scope. Minimum of 1 scope which can be used for all three rifles. Average quality 3x9 power, 50mm	Athlon, Vortex, Leupold, Burris,		\$200.00 and up	Can Purchase online or locally Brownells, MidwayUSA

(2) Ratcheting Squeeze clamps	Harbor Freight	Harbor Freight Link	\$4.99
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GSM 231 (Handgun Repair Technology)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
NOTE: Please consult with instructor prior to purchasing any 1911 parts, as not all parts will be suitable for class use.				
6" Swiss Pattern Barrette file	Amazon	Amazon Link	\$28.24	
8" American pattern 2 cut file	Brownells	191058860	\$14.00	
S & W hand window file	MSC	60108628	\$42.00	
S&W Double Action Sear	Varies			Midwest Gun Works, Brownell's, Numrich, Etc.
JCL magnetic vise jaws	Amazon	Amazon Link	\$10.95	
Hemostat or tweezers	Amazon	Amazon Link	\$5.99	
Needle Nose Pliers	Amazon	Amazon Link	\$5.97	
Parallel Jaw pliers	Amazon	Amazon Link	\$39.95	
S&W L, L or N frame revolver	Store/online purchases		\$300.00	Consult your instructor
1911 Barrel Bushing Wrench	Brownells	80045045	\$4.99	
Glock front sight removal tool	Amazon	Amazon Link	\$4.99	
Dremel Cratex Wheels and Mandrels	Amazon	Amazon Link	\$16.99	
EZ Lap Diamond	MSC	5125232	\$8.77	
Cup Tip Punch 6	Brownells	80620006	\$29.99	
Cup Tip Punch 3	Brownells	80620003	\$14.99	
Wolff 14lb Rebound Spring for S & W Revolver	Wolff	16663	\$3.49	
S & W Rebound Spring Removal Tool	Brownells	80666000	\$24.99	
3mm Carbide End Mill	Amazon	Amazon Link	\$21.99	
5mm Carbide Endmill	Amazon	Amazon Link	\$8.00	
3/16" Carbide Endmill	Amazon	Amazon Link	\$10.99	
3/8" Carbide Endmill	Amazon	Amazon Link	\$17.60	
¼" Carbide Endmill	Amazon	Amazon Link	\$8.98	
Various carbide ball or other end mills as necessary for slide serrations etc.	MSC/Amazon	(Speedtiger brand from Amazon)	Varies	
65 degree sight file	Brownells	80648265	\$43.99	
OPTIONAL:				
Replacement Match Barrel for S&W Rev.	Brownells	Brownell's Link	Varies	
Grobet Swiss 1 Cut Hand File	MSC	60205317	\$35.92	
Kuhnhausen S & W Manual – optional	Amazon	Amazon Link	\$49.99	
Kuhnhausen Ruger Manual – optional	Amazon	Amazon Link	\$49.99	

GSM 227 (Advanced Repair)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
Tools from previous classes will be used in Advanced Repair. (Most commonly carried over from GSM 127)				
Replace any broken or worn drill bits, end mills, turning inserts, or other consumables				

GSM 225 (Metal Refinishing)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
Lab Fee for Materials	MCC		\$40.00	
Rust Preventative #2	Brownells	83019016	\$36.99	
Express Blue	Brownells	575200004	\$10.99	
One quart of Denatured Alcohol	Lowe's/Local Hardware Store		Varies	
(5 Packs of each grit, up to 400 grit, or beyond if desired) Sand paper – Silicon Carbide or Aluminum Oxide Wet/Dry, paper backed	Store or online purchases	9"x 11" size - grits – 180, 220, 320, 400,	Varies	Local Carquest is a good source
(1) each – 2" x 72" Sanding belts – Grey	MSC or Supergrit	Supergrit Link	\$13.00	All grits, 180 , 240 , 400, 600
#0000 Steel Wool	Lowe's/Local Hardware Store		Varies	
1 quart ATF transmission fluid (Can be shared between 2-3 students)	Local Automotive		\$5.00	
(2) 1" foam brushes	Lowe's/Local Hardware Store		\$2.00	
(2) Spray bottle	Lowe's/Local Hardware Store		\$3.00	
Cotton work gloves	Amazon	Amazon Link	\$6.99	
Silicone Plugs	Amazon	Amazon Link	\$9.93	
Mother's Mag and Aluminum Polish	Amazon/Walmart, Etc	Amazon Link	\$5.40	
(10) Steel or nickel plated alligator clips	Amazon	Amazon Link	\$9.66	
Nitrile Gloves	Harbor Freight	Harbor Freight Link	\$11.99	
1 Gallon Acetone	Lowe's/Local Hardware Store		Varies	
Sidewalk Chalk	Walmart/Amazon	Amazon Link	\$1.00	
Painter's Tape	Lowe's		Varies	
Countour Sanding Pads	Amazon	Amazon Link	\$23.79	
Evapo-Rust Rust Killer	Lowe's/Amazon	Amazon Link	\$17.80	
Rebar Tying Wire	Lowe's/Amazon	Amazon Link	\$8.00	
100mL Glass Graduated Cylinder	Amazon/Walmart	Amazon Link	\$8.49	
Cerakote/Duracoat	Cerakote or Duracoat		Varies	

GSM 232 (Custom Handgun Technology)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
Night Hawk, Caspian, STI, or similar 1911 Slide/Frame Kit and Associated Parts			\$600-\$1400	
<i>(This may be available as a group purchase through the MCC Gunsmithing Club)</i>				
OR				
Suitable 1911 handgun or Parts kit gun for custom 1911 build (Consult instructor before making these purchases)			\$600+	
Front sight and/or base for revolver installation	Store/online/Brownells		varies	
1911 Barrel Locking Lug File	Kart Barrels	Part of Kart Group Purchase	\$21.00	+S&H
OPTIONAL:				
Slide/Frame Rail File	Brownells	80753000	\$44.99	
Can Seam Micrometer (consult instructor before ordering)	MSC	6235774	\$255.00	
Carbide dovetail cutters	Brownells	Brownell's Link	\$60-\$95	Carbide necessary, size and angle depends on your sight
Gauge block set	Amazon	Amazon Link	\$88.13	
Glock Handgun for customization			Varies	
Ruger revolver for customization				
Various other suitable handguns for customization (Consult instructor regarding project suitability)				

GSM 240 (Modern Sporting Rifles)

Item Description	Vendor	Web Link/Item Numbers	Est. Cost	Additional Notes
<i>NOTE: Please consult with instructor prior to purchasing any AR-15/AR-10 parts.</i>				
<i>NOTE: There are a wide range of bill out projects suitable for this class. Consult your instructor for proper guidance before purchasing any parts kits or receivers.</i>				
Cut Rifled Barrel Blank	Brux, Bartlein, Krieger, Etc.	Varies	\$350-400	
AR-15/AR-10 Barrel Extension		Varies	\$25.00-65.00	
Gas Block		Varies	\$25.00	
Gas Tube		Varies	\$15.00	
Muzzle Device		Varies	\$35.00	
Upper Receiver		Varies	\$75.00-150.00	
Handguard		Varies	\$100.00-200.00	
Bolt Carrier Group		Varies	\$89.00-200.00	
Charging Handle		Varies	\$20.00	
Ruger 10/22 Rifle		Varies		
Improved 10/22 Extractor	Brownells, MidwayUSA	Varies	\$15.00	
Spray Finish for (1)AR-15 rifle and (1)Semi-Auto Pistol	Cerakote, Norrell's,	Varies		
.22LR Ammunition for Test Fire and Accuracy Grouping	SK, Eley, Lapua, CCI	Varies	\$5.00-15.00	
Centerfire Ammunition for Test Fire and Accuracy Grouping		Varies		
Optional:				
AK Receiver		Varies		Optional
AK Parts Kit		Varies		Optional