

**Structural Welding Program**  
**Tool/Equipment List**



Rick Taggett, Instructor

Approximate Cost - \$665.00 - \$1,565.00

The following items must be provided by the student. It is essential that the student has safety shoes and safety glasses on the first day of school because some work will be performed in the shop. Students will be required to have the following items:

<b><u>Quantity Required</u></b>	<b><u>Item</u></b>	<b><u>Price</u></b>
1	Battery operated work light/flashlight with magnet	\$25.00
1	Welding Helmet- (if using auto darkening skip the shade lens)	\$100.00 - \$1,000.00
2	#10 Shade lens plates	\$4.00
2	#11 Shade lens plates	\$4.00
2	#12 Shade lens plates	\$4.00
10	Clear plastic cover lenses	\$1.00
1	Leather, Jacket or Cape sleeve bib with button-up collar (only leather may be used in the lab)	\$45.00
2	Clear Safety Glasses with side shields Z87+	\$6.00
2	Welding Gloves	\$9.00
1	Pair of high-topped safety shoes	
3	Welding hat (Kromer, Landry, Lapco, Comeaux)	\$15.00
2	Padlock	\$5.00
1	Full-face Shield Clear Lens	\$3.00
2	Clear replacement face lens	\$3.00
2	Plastic ear protection with case	\$2.00
1	5" Angle Grinder Portable (corded 110V) with safety guard	\$160.00
10	5" x 1/4 x 7/8 Metal grinding wheel	\$5.00
10	5" X 1/8 x 7/8 Metal cutting wheel	\$5.00
1	Chipping Hammer	\$5.00
2	Steel wire brush	\$12.00
1	Full-Face Oxy Acetylene Cutting Shield Lens shade #5	\$6.00
2	Replacement lens shade #5	\$6.00
2	10R Vise Grip Pliers	\$18.00
1	Set of Fillet Weld Gauges	\$30.00
1	Metal Tool box 24"L X 12" T X 10"W Maximum Size	\$20.00
1	Oxy Fuel Spark Lighter	\$2.00
1	Package of Lighter Flints	\$2.00
1	Set of Tip Cleaner, for Oxy/Fuel Cutting	\$3.00
1	25 Foot Steel Tape	\$19.00
1	Combination Square	\$12.00

1	32 oz Ball Peen Hammer	\$16.00
1	3/8" Center Punch	\$5.00
1	3/4" Cold Chisel	\$10.00
1	12" Adjustable Wrench	\$15.00
1	8" Needle Nose Pliers with side cutters	\$15.00
1	9 1/2" Lineman's Pliers heavy duty	\$24.00
1	File Handle	\$3.00
1	14" Half Round Bastard File (Nicholson Recommended)	\$21.00
1	9" Torpedo Level (metal) with Magnet	\$9.00
2	Leather Faced Work Gloves	\$8.00
10	Soapstone Markers	\$5.00
1	Soapstone Holder	\$3.00

### **LABS:**

Student clothing to be worn in the labs must be flame retardant with no frayed edges. Shirts must be long-sleeved and pants must have no cuffs. Absolutely no polyester or nylon clothing shall be worn. High top safety shoes must be worn for foot protection and a welder's cap must be worn to protect the scalp. Students will not be allowed to work in the laboratory without fulfilling these safety requirements.

Students are required to have all tools and personal equipment in his/her possession in order to participate in laboratory activities.

**\*\* All students must be prepared to go to work in the lab the first day of class and everyone must wear safety boots! \*\***

## Laptop Computer Minimum System Requirements:

Estimated costs of the laptop computer will range from \$500-\$1,000 depending on the model and features preferred by the student.

### *Software:*

- Licensed Windows 10 or 11 operating system
- Microsoft Office 365 or 2019 Professional (Word, Excel, Access, & PowerPoint)
  - Available for free download through Office 365 account (Matriculating students only)
- Licensed and up-to-date antivirus

### *Hardware:*

<b>Minimum Requirements</b>	<b>Recommended Requirements</b>
Intel i3, Ryzen3 processor or faster	Intel i7 8 <sup>th</sup> Generation processor or faster
4GB or RAM	8GB or RAM
256GB Hard Drive	500GB SSD
Wireless networking	Wireless networking
Battery with at least 1.5 hours of runtime	Battery with at least 3.0+ hours of runtime
Web Camera, Mic, and Speakers (Video Conferencing)	Web Camera, Mic, and Speakers (Video Conferencing)

### *Optional:*

- Wireless Mouse
- USB Flash Drive (for moving files)
- DVD Drive

## **We do not recommend:**

- **Chrome books**
- **Mac or iPads**
- **Windows S mode laptops**

*Updated: January 2024*