

Supplies Budget

ICP Protocol

\$1,163.42

We are requesting \$300 for supplies. The Chemistry Department and Walker Library will fund anything not covered.

Gloves

1 box of nitrile exam gloves \$11.39 each = +\$8.39 shipping = **\$19.78**

https://www.staples.com/ammex-professional-series-powder-free-nitrile-exam-gloves-latex-free-large-blue-100-box-apfn46100/product_24474490

Justification: Each swab for the ICP protocol requires a fresh set of gloves.

Wipes

1 box of Ghost wipes \$158.50 + \$8.39 shipping = **\$166.89**

<https://www.zefon.com/ghostwipe-15cm-x-15cm-500pk>

Justification: These wipes will be used to swab the books.

Test tubes

1 case of 1000 \$314.55 \$25 estimated shipping = **\$339.55**

<https://www.fishersci.com/shop/products/13x100-tube-8ml-rb-stpk-cs1000/NC0176174#?keyword=13x100%20test%20tubes>

Justification: The test tubes are used to hold the sample liquid after digestion while on the ICP autosampler

Nitric Acid

1 bottle 2.5 L \$399.50 +\$20 estimated shipping = **\$419.50**

<https://www.fishersci.com/shop/products/nitric-acid-tracemetal-grade-fisher-chemical-3/A509P212#?keyword=nitric%20acid%20metals>

Justification: The acids are used to digest the wipes so they can be tested on the ICP.

Hydrochloric Acid

1 bottle (500 ml) \$197.70 = \$20 estimated shipping = **\$217.70**

<https://www.fishersci.com/shop/products/hydrochloric-acid-tracemetal-grade-fisher-chemical-6/A508P500#?keyword=hydrochloric%20acid%20metals>

Justification: The acids are used to digest the wipes so they can be tested on the ICP.

Inductively Coupled Plasma Optical Emission Spectroscopy Analysis of Bullet Alloy Ratios on Impact Surfaces for Forensic Firearm Identification

Faculty Mentor: [REDACTED]
Summer 2026

Item	Quantity	Price per item	Total Price	Reason
Buckets	30	\$3.98	\$119.40	This is for keeping soil in place when shooting ammunition.
1-foot-long 2x8s	10	\$4.47	\$44.70	This is the impact surface where ammunition will be fired.
8x4x16 concrete blocks	10	\$3.26	\$32.60	This is another impact surface that will be analyzed between different types of ammunition.
One roll of 3M Duct tape	5	\$5.78	\$28.90	This is to connect the recycled office paper collected around the Science Building.
Total Final Costs			\$225.6	

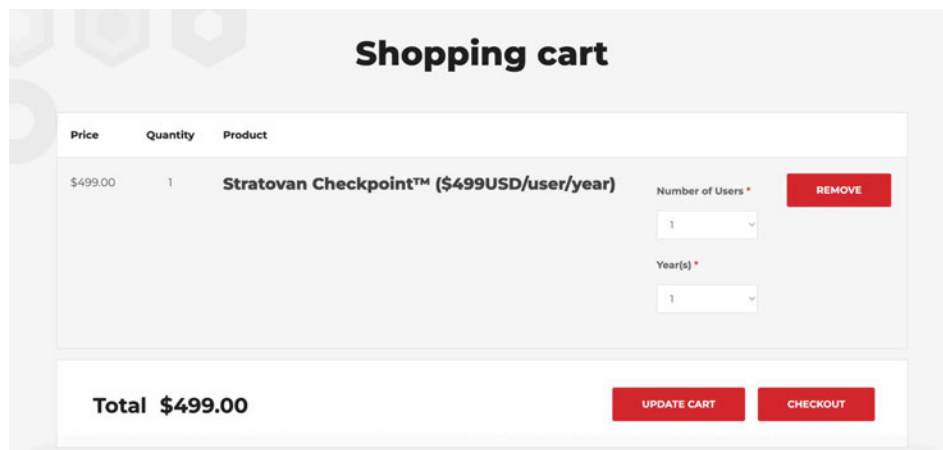


Budget Justification

The bullets will be volunteered along with the gun. The budget will be allocated to 30 buckets, 30 water jugs, soil, 10 1-foot-long 2x8s, 30 8x4x16 concrete blocks, and 5 rolls of 3M duct tape. The buckets will be bought either at Lowe's or Home Depot. The buckets will be filled with soil, and we will collect the soil. 30 buckets are \$120. We will obtain recycled milk jugs and fill them with water. 30 4x8x16 concrete blocks are \$35. 5 rolls of 3M duct tape cost \$30 and will be used to stop bullets made from paper blocks, recycled paper collected from trash cans around the MTSU Science Building. They will be connected with duct tape, which will be mounted to the blocks. 10 2x8s are \$45, which will be cut in half.

Budget

- \$250 for Stratovan Checkpoint
 - A software package used for geometric morphometric analysis of specimens: It allows for the collection and placement of landmarks on 3D surfaces and creates 3D models from imaging data (CT). It provides accurate measurements of 3D anatomical structures.
 - NOTE: The current price will be discounted for students



- <https://www.stratovan.com/products/checkpoint>
- \$30 for resin
 - To make a 3D print of the cichlid oral jaws, resin is needed. It allows for the data to become tangible. It will aid in understanding the size and shape of the jaws.
 - https://us.elegoo.com/products/elegoo-tough-resin?variant=gid%3A%2F%2Fshopify%2FProductVariant%2F45009076191413&gad_source=1&gad_campaignid=22950791412&gbraid=0AAAAACVnSvpHcj4FMDAT_FNQnIcSaOGs0&gclid=Cj0KCQjwp7jOBhDGARIsABe7C4dEF3ncYa7bkj1yqx_fLV4GfOsOWoqop8lX0pYFJIDVq9CGrOyFDz4aAu45EALw_wcB