**Engraving Problems Course**

This course is designed for students that have completed the Introductory Hand Engraving and Advanced Hand Engraving courses. It is an individualized course that will focus on specific needs of the student. Students can bring projects that they would like to get assistance with and specialized instruction. Students that register for this course should contact the instructor prior to the beginning of the class so that appropriate instructional arrangements can be made.

**Dr. Michael J. Pierson** has been an academic administrator and taught technical subjects in a university setting for over 35 years. He has been engraving for 24 years, was trained by Frank Hendricks, and is a member of the Firearms Engraver’s Guild of America. He is proficient with both the hammer and chisel and pneumatic engraving techniques and a wide variety scroll patterns.

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**Tool List**

- Engravers Chasing Hammer 1 – 1/8” face
- Glensteel 120 degree graver
- Three cobalt gravers, .085 sq. x 2-1/2”
- #7 straight liner in standard width
- #12 straight liner in standard width
- #20 straight liner in standard width
- Steel ruler, 6 inch
- Dividers
- Scribe
- Stabilio #8008 pencil
- Burnisher
- Dot punch set, No. 1, 2, and 3
- Optivisor, #3 lens recommended
- Ngraver handle, Nos. 2, heavy duty
- 35mm empty film canister
- Talcum powder
- Clear tape
- Etching ink
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Introductory Western Bright Cut Engraving

This course covers basic concepts and skills related to engraving the scrolls, flowers, and leaves that form the Western style of engraving. Special emphasis will be placed on tool sharpening, pattern theory, designing, transferring, and cutting patterns. The techniques used on belt buckles, saddles, tack trim, bits, spurs, and jewelry are covered.

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TOOL LIST:
Engraver’s Chasing Hammer, #011-471 (GRS Tools)
Four Glensteel gravers, #002-120 (GRS Tools)
#7 straight liner in standard width (The Ngraver Company)
#12 straight liner in standard width (The Ngraver Company)
#20 straight liner in standard width (The Ngraver Company)
Steel ruler, GAU-189.10 (Jewelry Tools)
Dividers, DIV-400.99 (Jewelry Tools)
Scribe, SCB-530.00 (Jewelry Tools)
Stabilio #8008 pencil, 56540 (Mister Art)
Burnisher, BRN-200.25 (Jewelry Tools)
Dot punch set, No. 1, 2, and 3 (The Ngraver Company)
Optivisor, #002-710 (GRS Tools)
GRS Hand Chuck, #004-000 (GRS Tools)
Talcum powder (Wal-Mart)
Clear packaging tape (Wal-Mart)
Etching ink (Rudolph Faust, Inc.)

TOOL & SUPPLY SOURCES:
Mister Art
Web site: misterart.com

GRS Tools
900 Overland Road
Emporia, KS 66801
Phone: 620-343-1084
Toll Free: 800-835-3519
Fax: 620-343-9640

The Ngraver Company
67 Wawecus Hill Road
Bozrah, CT 06334-1529
Phone: 800-823-1533
Fax: 860-823-1533
Web site: Ngraver.com/engrave.htm

Rudolph Faust, Inc.
542 South Ave.
East Cranford, NJ 07016
E-mail: faust@faustink.com
Phone: 908-276-6555

Stuller
P.O. Box 87777
Lafayette, LA 70598-7777
Phone: 800-877-7777
Web site: www.stuller.com

Jewelry Tools
1521 W. 2550 S.
Ogden, UT 84401
1-866-453-6147
Web site: jewelrytools.com