

Make a Contemporary Cameo Box with Modern Technology with Will Lerums
July 8-12, 2019

Syllabus:

Monday

- Introduction to CAD / CAM / CNC workflow and safety
- Discussion - CNC machine setups and software
- Demo - Determining machine zero and controlling the machine manually
- Computer / Machine time

Tuesday

- Discussion - Factors contributing to CAM operations and settings
- Demo - Posting files to various controller software programs
- Computer / Machine time

Wednesday

- Discussion - Methods of securing material
- Demo - Show procedures for flip milling boards
- Computer / Machine time
- Discussion - 3D Shaping operations and considerations
- Computer / Machine time

Thursday

- Computer / Machine time
- Discussion - Design with CNC machines in mind
- Demo - CNC diamond drag bit on mirror and soft metals
- Computer / Machine time

Friday

- Discussion - Review of the week and an opportunity to ask questions
- Computer / Machine time
- Demo - Part clean up and assembly of completed box
- Clean up

Tools to Bring:

- **Safety**
 - Wrap around eye protection with ANSI Z87+ Rating
 - Over-the-ear hearing protection
- **Tech**
 - Computer or laptop - Information concerning computer requirements and accessing the software will be sent to students via email.
- **Marking and Measuring**
 - 6"-12" metal ruler
 - Small tape measure
 - Dial or digital calipers - 6" - 8" is great
 - Graph paper
- **Hand Tools (Optional)**
 - Assortment of chisels from 1/8" to 1/2"
 - Mallet
 - Small block plane

Material:

The wood for this class will be prepared prior to the class, as it is very important to have consistent dimensioned material. All of the hardware and mirror will be provided as well.

Please reach out to me by email or phone with any questions or concerns. Thanks