

CNC Router Fabrication Procedure

Step 1: Stop by or email the shop to confirm feasibility of your project.

We will advise you on:

- The suitability of using a CNC Router for what you want to do
- What file type will be needed for your project (.STL or .DWG)
- What materials we would recommend or require that you purchase (this might include router bits)
 - **It is important that you wait to purchase your materials until after your initial discussion with shop staff as your design can dictate what materials are best suited for the project.**
- How the materials can be held down on the bed of the CNC for routing and any difficulties that might be incurred with your project

Once it has been determined that your project is suitable for fabrication using the CNC router, and that you understand the requirements, you may purchase your materials and proceed with the next step.

Step 2: Make a reservation for a file consultation.

During this consultation, you will sit down with shop staff to review your file(s) and material. If all is correct, shop staff will generate the tool path code for your CNC job. **We will not accept file submissions via email.**

- Go to the online reservation calendar, Selection CNC Consultation Reservations and sign up for a 1 hour CNC consultation slot: https://www.supersaas.com/schedule/CoACM_Labs
- At the time of your reservation, you will come down to the wood shop with your files saved on a flash drive in the correct format.
 - Your files should be named in this arrangement: **Last Name(X*)_ Professor.stl**
 - *If multiple files, number them
 - Ex: kidd1_pittman.stl, kidd2_pittman.dwg
- All 3D models should be the correct scale before your file consultation with shop staff

Step 3 – Running the Project and Clean-up

Use of the CNC Router is on a first ready, first served basis – working from when a project is ready to run on the machine, which means the following:

- The object file has been reviewed and executable machine tool path code has been generated
- Your materials are on site and ready to mount on the machine
- Appropriate bits are on site and ready for use. (Students may be required to provide router bits for custom work or for use on abrasive materials).
- You are available to clean up the CNC at the estimated time of completion.

When the above steps are satisfied, the shop staff will mount your materials and run your files(s) on the CNC. Your help with mounting materials or cleaning up between multiple file runs may be required. You will be informed via email or phone when your CNC job is completed, and you need to come clean up ASAP.