

ME 486C – Capstone II
Tentative Team Information Moving Forward
Spring 2020

Please answer the following questions as best as you can right now. It is fully understood that this information is tentative and subject to change.

NOTE: As of right now, we are closing Building 98C’s Machine Shop to student use until further notice. There will be opportunities to still contract with the Shop Managers to have work done at this time. We will reevaluate the situation in a few weeks time.

1. Please list where each team member will likely be residing for the remainder of the semester (feel free to list several locations if you plan on moving around).

a. Note: Dr. Oman will NOT require you to be on campus for the remainder of this semester. This information will simply aid in ensuring all members know where their teammates will be and allow Dr. Oman to plan accordingly for online meetings.

b. State what timezone your location(s) is/are in as well

<u>Team Member</u>	<u>Location(s) and Respective Time Zones</u>
Brandon Bass	Flagstaff, AZ - Mountain Standard Time
Tyler Hans	Flagstaff, AZ - Mountain Standard Time
Sage Lawrence	Flagstaff, AZ - Mountain Standard Time
Elaine Reyes	Flagstaff, AZ & Goodyear, AZ - Mountain Standard Time
Dakota Saska	Sierra Vista, AZ - Mountain Standard Time

2. Please state where all the parts and components are currently stored that you already have for your capstone project. Be as detailed as possible.

a. Feel free to use the BOM and attach as an appendix if that would be easier (then just add a column of Location). Otherwise, a general list will suffice (such as “most items are in the machine shop in Locker 12B, but the pump and valves are in Tony Stark’s garage”).

- **All items are in the machine shop in Locker 6.**

3. Breakdown all the tasks that still need to be completed to manufacture and assemble your physical system to be 100% complete. [No need to include non-physical capstone deliverables such as reports and CAD package here.]

a. **Within this breakdown, include for each task whether it can be:**

i. **completed by the team without needing access to Building 98C’s machine shop**

ii. **completed by a Building 98C Machine Shop shop manager if you put in a work order**

iii. **completed by outsourcing to a local or national company that is still open currently.**

iv. **Listed as future work that another team would need to complete after the semester is over.**

v. **[or other options that you may think of]**

b. Consider what actions need to occur for these tasks to be completed as well and include that when necessary

i. For example, you may need to specify “if someone could pick up the raw material delivery in the Engr. Building and take it to 98C, then we could have the shop managers mill this part”

c. If you’re willing and able, please also include information about how much testing has been completed and what testing remains to be done.

i. Note, again, that in-person testing will NOT be required. Dr. Oman simply needs a breakdown of what has been done and remains.

d. You don’t have to use the following table if you have better way to communicate this information.

<u>Task</u>	<u>How can it be completed?</u>
Torque Handle	98C Work Order
Torque Nut	98C Work Order
Rail Angle Template Chamfers	98C Work Order
Rail Mount Cut and Chamfered	98C Work Order
Template Screws (4)	98C Work Order
Plate Holders (2)	98C Work Order
Pull Test Cap	98C Work Order
Pull Test Attachment	98C Work Order
Pull Test Threaded	98C Work Order
Slot Angler	98C Work Order
Lead Screw Rotation Washer	98C Work Order
Lead Screw Rotator	98C Work Order
Power Screw Testing	Select team members can meet to test the input torque for the power screw to apply 20 and 50lb axial forces for the device
Device Overall Testing	Select team members can rig up the device to determine the overall functionality of the device

4. Please state any other information that you'd like Dr. Oman to know from the team.

As of now, we believe we are 90% done with the manufacturing of the device. For the remaining time in the semester, the team plans on determining how the device performs with testing and make further work orders as needed depending on how well the device performs.