Makerspace Equipment Familiarity Pre-Assessment Revised

Q1   Which level of experience with makerspaces best describes you?

- Before taking this course, I had never heard of a makerspace, and am pretty sure I've never worked in one.

- Before taking this course, I had a general understanding of makerspaces, but I had never worked in one.

- Before taking this course, I was familiar with makerspaces and had worked in a makerspace on a project at least once.

- Before taking this course, I was a frequent user of at least one makerspace.

Q2   Before taking this course, have you ever used the equipment in the UTA FabLab?

- Yes

- No

Q3   Please rate your level of experience with the types of equipment found at the UTA FabLab and other makerspaces:

		None	Beginner	Novice	Intermediate	Competent	Advanced	Expert
Q3.1	3D Printers	○	○	○	○	○	○	○
Q3.2	3D Scanners	○	○	○	○	○	○	○
Q3.3	CNC Mills and Routers	○	○	○	○	○	○	○
Q3.4	CNC Vinyl Cutters	○	○	○	○	○	○	○
Q3.5	Laser Cutters/Engravers	○	○	○	○	○	○	○
Q3.6	Sewing Machines / Sergers	○	○	○	○	○	○	○
Q3.7	CNC Embroidering Machines	○	○	○	○	○	○	○
Q3.8	Screen Printing Press	○	○	○	○	○	○	○

Q4 Please rate your level of experience with the types of equipment found at the UTA FabLab and other makerspaces:
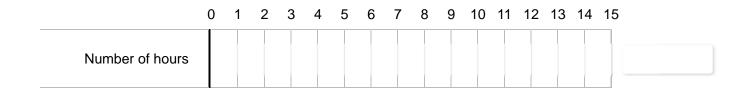
	None	Beginner	Novice	Intermediate	Competent	Advanced	Expert
Q4.1 Software for File Preparation for Digital Fabrication	○	○	○	○	○	○	○
Q4.2 Woodshop equipment such as table saws, bandsaws, drills & presses, grinders, and hand tools	○	○	○	○	○	○	○
Q4.3 Electronics fabrication tools, including soldering irons, multimeters, microprocessors, and PCB printers	○	○	○	○	○	○	○
Q4.4 Ceramics and/or glass working tools, including kilns	○	○	○	○	○	○	○

Q5 In your own words, describe briefly how a 3D printer works. (Optional)

Q6 In your own words, describe briefly how CNC technologies work. (Optional)

Project Management

Q7 How many hours per week are you available outside of class time for IE 4340 assignments and projects?

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Number of hours																

Q8 How familiar are you with the following Project Management topics?

	Not familiar at all	Slightly familiar	Moderately familiar	Very familiar	Extremely familiar
Q8.1 Project Planning: Specs, SOW, & WBS	⊙	⊙	⊙	⊙	⊙
Q8.2 Network Scheduling Techniques: PERT & CPM	⊙	⊙	⊙	⊙	⊙
Q8.3 Project Graphics (Gantt Charts, etc…)	⊙	⊙	⊙	⊙	⊙
Q8.4 Pricing & Estimating: i.e. Effort-hours/task/job code, overhead & fringe rate	⊙	⊙	⊙	⊙	⊙
Q8.5 Risk Management: Measuring the probability and consequence of not achieving a defined goal	⊙	⊙	⊙	⊙	⊙

Assembling Effective Teams

Q9 How much do you enjoy working in teams?

None at all	A little	A moderate amount	A lot	A great deal
⊙	⊙	⊙	⊙	⊙

Q10 How many years of experience do you have working in teams? This could include on-
the-job experience, course work, or extracurricular activities.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number of Years

Q11 How familiar are you with the following topics about Leadership and Teamwork?

	Not familiar at all	Slightly familiar	Moderately familiar	Very familiar	Extremely familiar
Q11.1 Leading and organizing student organizations	○	○	○	○	○
Q11.2 Team Development: The process of improving competencies, team member interaction, and overall team environment	○	○	○	○	○
Q11.3 Performance Appraisals: The process of tracking team member performance, providing feedback, resolving issues	○	○	○	○	○

09 Assemble Effective Teams Pre-Assessment Revised

Q12 How well does this statement describe you?

I can assemble effective teams.

- ○ Does not describe me
- ○ Describes me slightly well
- ○ Describes me moderately well
- ○ Describes me very well
- ○ Describes me extremely well

Q13 Please explain your response to the above question.

Q14 The following statements are about assembling effective teams. How well do the
     statements describe you?

	Does not describe me	Describes me slightly well	Describes me moderately well	Describes me very well	Describes me extremely well
Q14.1 I can recognize opportunities to collaborate with others who provide diverse experiences and perspectives.	○	○	○	○	○
Q14.2 I can gauge the costs & benefits of "Doing-it-Yourself" (DIY) or "Doing-it-Together" (DIT).	○	○	○	○	○
Q14.3 I can recruit team members with diverse skills appropriate for specific project requirements.	○	○	○	○	○
Q14.4 I can join a team where my skills are sought and valued.	○	○	○	○	○
Q14.5 I can solicit advice, knowledge and specific skills from experts.	○	○	○	○	○

Q15 Describe a time when you had to assemble or join a highly effective team. What criteria
     did you use to select team members, or to identify a team where your skills would be
     valued? (Optional)

10 Collaborate Effectively Pre-Assessment

How well does this statement describe you?

Q16   I can collaborate effectively with team members and stakeholders.

- Does not describe me
- Describes me slightly well
- Describes me moderately well
- Describes me very well
- Describes me extremely well

Q17   Please explain your response to the above question.

Q18 The following statements are about collaborating effectively with team members and stakeholders. How well do the statements describe you?

		Does not describe me	Describes me slightly well	Describes me moderately well	Describes me very well	Describes me extremely well
Q18.1	I can listen to others.	○	○	○	○	○
Q18.2	I can learn from and with others.	○	○	○	○	○
Q18.3	I can communicate respectfully and clearly with team members and stakeholders.	○	○	○	○	○
Q18.4	I can follow through on team commitments and responsibilities.	○	○	○	○	○
Q18.5	I can practice accountability both personally and with team members.	○	○	○	○	○
Q18.6	I can appraise contributions to the success of the team.	○	○	○	○	○

Q19 How do you describe effective collaboration? What are some *ineffective* practices that you've experienced in the past? (Optional)

Student Contact Info