

Small Projects and Skills

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Resources are at:

<http://agedweb.org/AgMechanicsCurriculumProject/SkillsClasses/2022/SmallProjects>



All Handout materials can be found there.

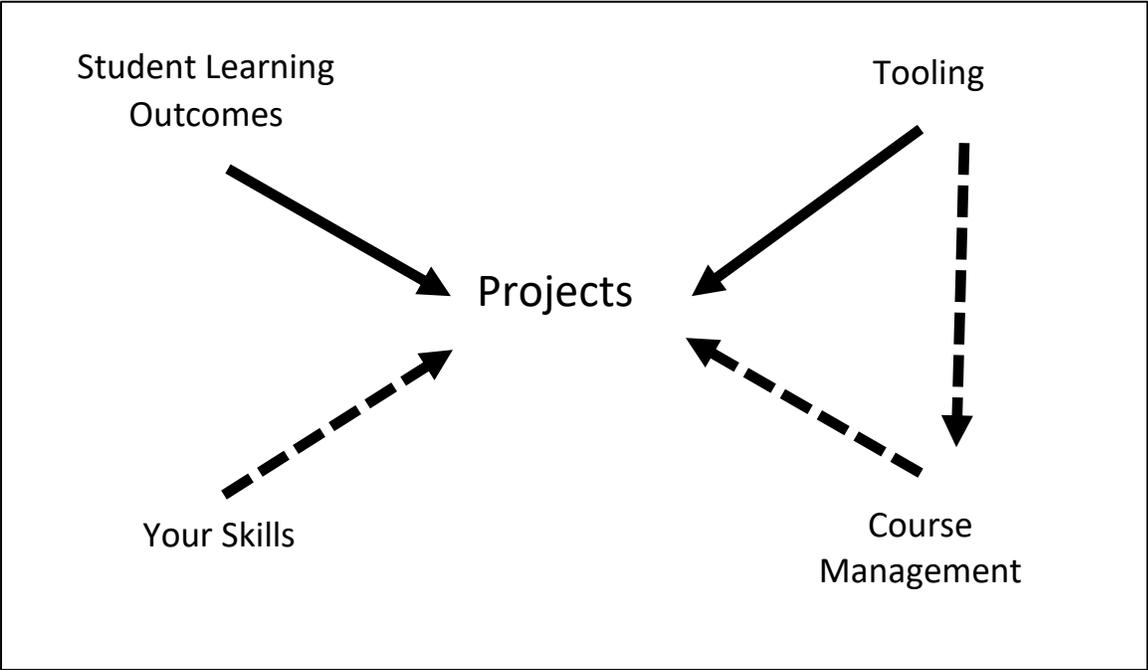
Agenda

Time	Topic
8:00	Introductions and Overview
8:15	SLO's to Projects, Materials, Plan Adjustments
8:30	Safety: Miter Saw, Band Saw, Drill Press, Electricity, Torch, Nailer
8:45	Project 1
9:45	Project 2
10:45	Project 3
11:45	Wrap Up
12:00	Adjourn

CATA Skills Project Matrix

Hour			
1	Electrical Wiring Make simple board and wire simple circuit Testing student projects	Note Paper Tray Sheet metal, use of combo square for layout	Bookend Wood, simple jig
2	Survey Setting Grade, Squaring	Meat Hook Hot metal, use of jigs)	Cord Reel /PEX Pressure tester for student projects
3	Electrical Troubleshooting Use of Multi-meter	Bevel (Combo Layout)	Flower Box Wood, use of brad nailer

Project Development Model



Project SLOs

Projects are designed to be simple and short yet each have specific SLOs.

SLO	PEX	Electrical Wiring	Electrical Troubleshooting	Meat Hook	Note Tray	Bevel	Cord Reel	Planter	Bookend	Survey
Measuring	X			X	X	X	X	X	X	X
Plan Reading	X	X		X	X	X	X	X	X	
Tool and Material ID	X	X	X	X	X	X	X	X	X	X
Project Layout					X	X		X	X	X
Project Assembly	X	X		X			X	X	X	
Cutting PEX Pipe	X									
Fastening PEX Pipe	X									
Electrical circuits		X	X							
Electrical Wiring Skills		X								
NEC		X								
Multi-meter use			X							
Electrical Concepts (ex. resistance)			X							
Hot Metallurgy				X						
Metal Heating and Shaping				X						
Metal Bending				X	X					
Sheet Metal Working						X				
Threading						X				
Oxy-Acet Torch				X						
PCV Cutting							X			
PVC Gluing							X			
Wood Fasteners								X	X	
Metal Fasteners						X		X	X	
Wood Gluing								X	X	
Setting Grade										X
Squaring										X
Power Tool Use & Safety										

SLO	PEX	Electrical Wiring	Electrical Troubleshooting	Meat Hook	Note Tray	Bevel	Cord Reel	Planter	Bookend	Survey
Table Saw								X		
Power Miter Saw				X				X		
Drill Press				X				X		
Bandsaw								X		
Brad Nailer									X	