

UMPQUA COMMUNITY COLLEGE

Integrating Advanced Technologies into Education and the Workplace









Advanced Technologies in Workplace

Construction

Buildings, Sitework, Utilities

Computer Aided Design GPS

Manufacturing

Automated Manufacturing

Computer Aided Design CNC Machinery Robotics











UCC - Advanced Technologies in Education

Computer Aided Design (CAD)

AutoCAD, Civil3D, Solidworks, ArcGIS, TraversePC, Inventor, Revit

3D Printers



GPS Survey Accuracy – 1 cm









UCC - Advanced Technologies in Education

CNC (Computer Numeric Control) Machinery

CNC Plasma Cutter





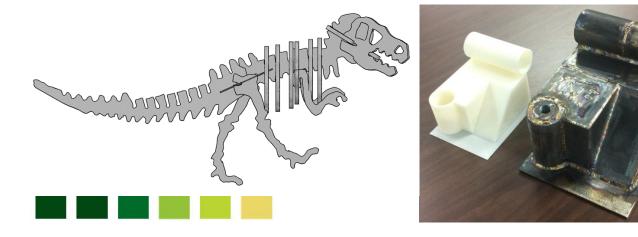




Examples: UCC Advanced Technologies in Education & Workplace

- **1) 3D Printing in a First Year Engineering Project** UCC Engineering Students
- 2) Cross Discipline CAD, 3D Printing, Welding UCC Welding Students
- **3)** Training for Local Businesses/Industry FCC Commercial Furniture

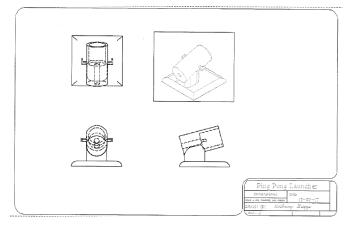


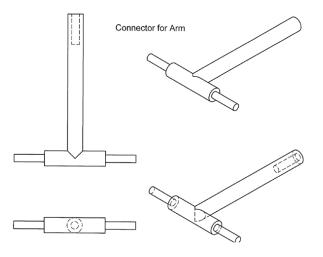






3D Printing in a First Year Engineering Project







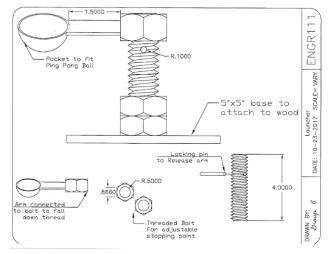


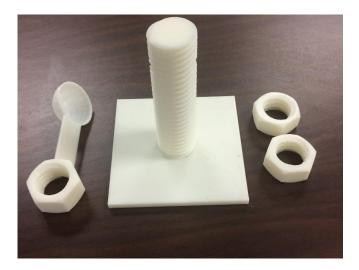




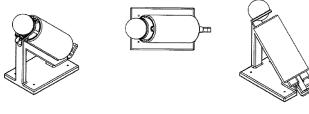


3D Printing in a First Year Engineering Project

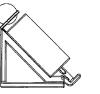




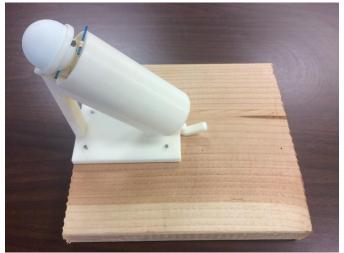








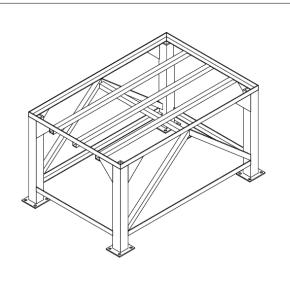








QTY	TYPE	LENGTH	SIZE	COST	
4	SQ. TUBING	18 13/16" 2X2X1/4		\$60.34	
2	ANGLE IRON	36"	1X1X1/8	\$15.40	
2	ANGLE IRON	24"			
2	ANGLE IRON	32"	1		
2	ANGLE IRON	20"			
1	SQ. TUBING	24"	1X1X.120	\$20.14	
3	SQ. TUBING	36"			
4	SQ. TUBING	22"			
8	STEEL PLATE	4'X4'	3/16	\$40.80	
4	STEEL PLATE				
		TOTAL COST		\$136.68	
		COST +25%		\$170.85	



NOTE

 ALL PARTS MUST BE TACK WELDED TOGETHER PRIOR TO WELDING
³/₁₆" WELDS ON ALL JOINTS

APPROVALS	DATE					
DRAWN CB	11/29/17		CHRIS BROADSWORD			
CHECKED		TITLE				
APPROVED			WORK TABLE			
		WORKTABLE				
TOLERANCE:	±16	SCALE 1	:10	SHEET 1	OF 3	







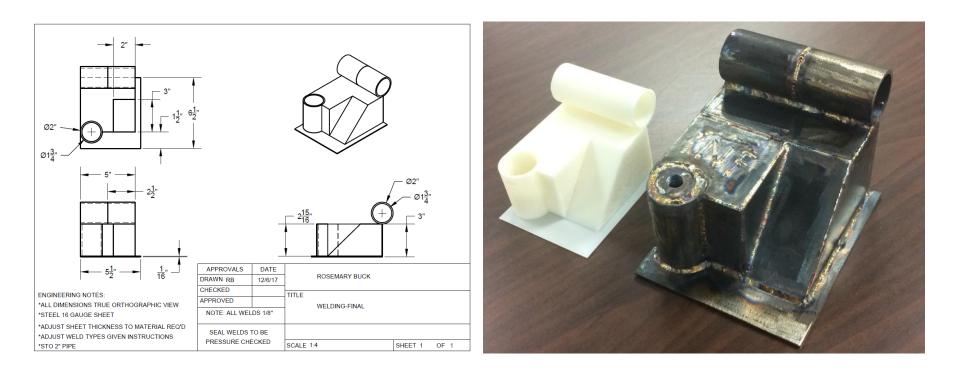








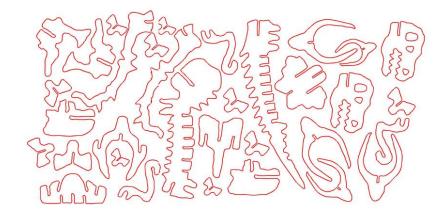


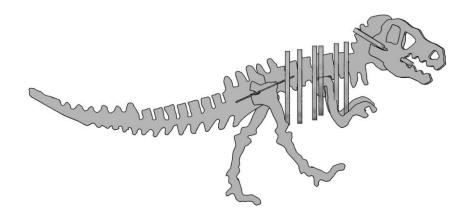












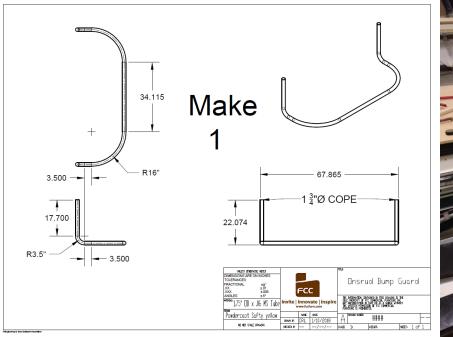








Training for Local Businesses/Industry











Training for Local Businesses/Industry

