1135-VJ-1734 **David R. Burns*** (burnsd@wcsu.edu), 181 White Street, Danbury, CT 06810. *Adapting understanding of functions and domain to create 3D printed art.* Preliminary report.

In the spring semester 2017 I created a lab project for my students in calculus III. Students applied previous knowledge of functions and domains to create mathematical sculpture. The project used a transformation on a defined domain that is reasonably consistent in producing 3D printable solids. The only output requirements were the size of the object created. The students were encouraged to work with a domain and transformation of their own design and experiment with different parameters. The talk will detail the project and methods used as well as show examples of student sculptures. (Received September 24, 2017)