Spur your creativity by combining tactile play and digital refinement. Learn the basics of Grasshopper programming by translating evocative forms created by physical play with paper and wood. Spur your creativity by combining craft and computation. Discover delightful forms with materials, explore and evaluate variations with parametric design and simulation. See how design computing can increase perceptions, enrich design options, and improve design decision-making. This course develops skills for generating beauty in 2D, 3D and 4D motion.

HOW: No prior knowledge of Rhinoceros or Grasshopper is needed. The course coaches students with recorded video tutorials, peer sharing, interactive sessions and individual help. It opens the door to hundreds of free and low-cost plug-in design applications that span in scale from jewelry to aerospace. Explore how design computing can increase perceptions, enrich design options, and improve design decision-making. This course develops skills for generating beautiful design variations, and evaluating the results with aesthetic judgment and simulation tools.

Students must have access to Rhinoceros software running on their own personal computer.

Optionally focus on Circular Design/Build project designing and building a new structure with existing pieces. Invest 30 more contact+homework hours for an additional 1 UG credit ARCH 405/605 Special Problems Advanced Tech.