

Week 1 (1/15-1/19) Monday, 1/15: MLK - NO CLASS
 Rosette symmetry. Rotations, reflections. Composition. Symmetry groups.

Week 2 (1/22-1/26) Frieze symmetry. Translation. Glide reflection.

Week 3 (1/29-2/2) Wallpaper symmetry.

Week 4 (2/5-2/9) Tiling with square patterns. Tiling with polygons.

Week 5 (2/12-2/16) Triangle tessellations. Quadrilateral tessellations.

Week 6 (2/19-2/23) Monday, 2/19: EXAM 1
 Regular polygons. Regular & semiregular tessellations. Duality.

Week 7 (2/26-3/2) Creating shapes that tessellate.

Week 8 (3/5-3/9) Dilations. Iteration. Fractals. Dali.
 Friday, 3/9: Tessellation art project due.

SPRING BREAK (3/12-3/16)

Week 9 (3/19-3/22) Spherical geometry. Geodesics. Triangles.

Week 10 (3/26-3/30) Spherical tessellations. Platonic solids. Euler characteristic.
 Friday, 3/30: EXAM 2

Week 11 (4/2-4/6) Hyperbolic geometry. The Poincaré Disk. Geodesics. Hyperbolic triangles.
 Friday 4/6: Good Friday - NO CLASS

Week 12 (4/9-4/13) Hyperbolic tessellations.

Week 13 (4/16-4/20) 2D vs. 3D. Depth.

Week 14 (4/23-4/27) Perspective. Impossible figures. The fourth dimension. Hypercubes.

Week 15 (4/30-5/4) Cubism, 4D in art. Project work.

Monday, May 7, 12:00-1:50 Art project due. EXAM 3