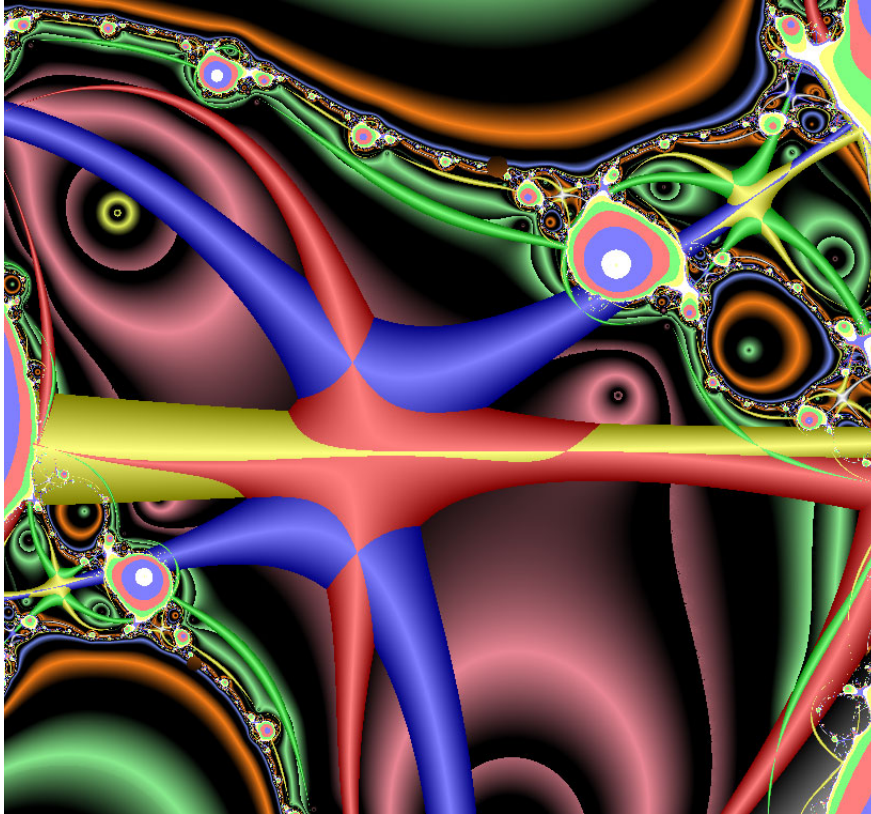


Math In Art

Slot 4, 8:30 - 9:50 AM
Tuesdays & Thursdays
205 Ames, Machray Hall.

Instructors
Dr. S. Kalajdziewski, Mathematics
Professor Treble Lysenko, School of Art



MATH IN ART is a marriage between mathematics, the most abstract science, and fine arts (i.e. drawing, painting, ceramics, sculpture, architecture). In a sense, all visual arts are math arts, since they all exhibit symmetry, patterns, colour and dimension in varying degrees. In this course we will study math related aspects of fine arts, as well as some visual (or artistic) aspects of math. The main themes of study include:

golden mean, golden rectangles, Fibonacci spirals, symmetries and other organizing principles, frieze patterns,

wall paper groups, tilings & tessellations, string art and conics, perspective drawing, Platonic solids and regular polyhedra, hyperbolic art, nature/mathematics as a fractal artist and various topological objects.

Goal: To allow students of fine arts to have an understanding of mathematics which may transform the way they see the world. To show them how visual information can be quantified, generated, and manipulated to achieve a particular response. To demonstrate the visual qualities of mathematics and the mathematical undercurrents in the visual arts.

Scheme of Evaluation

One art project/assignment (format, deadline to be determined by Professor Lysenko)	25%
One Mid-Term Exam (to be set by Professor S. Kalajdziewski)	25%
One art assignment/project (to be determined by Professor Lysenko)	15%
Final Exam in December (2 hours, covers all topics, SK)	35%
Total	100%