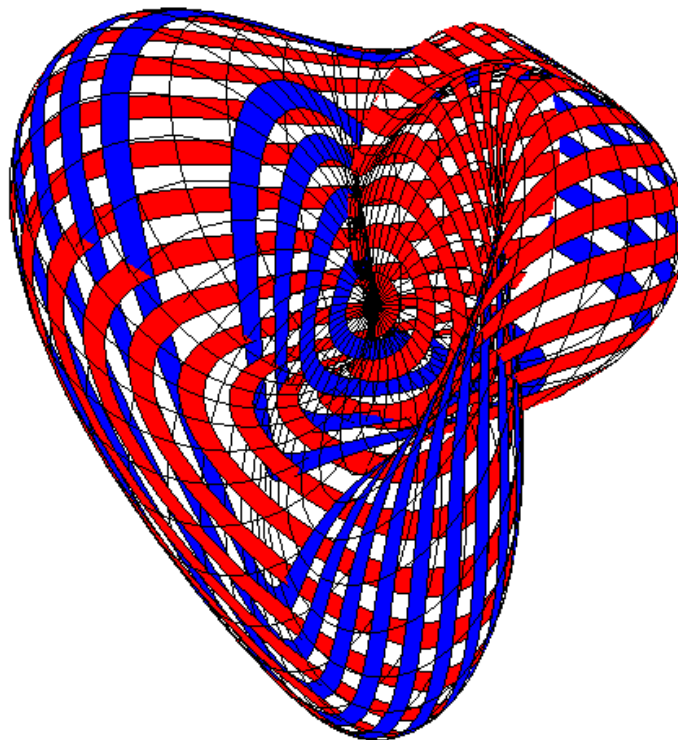


# Math 1020/FA 1020

## Math In Art A02

11:30 - 12:45 AM  
Tuesdays & Thursdays  
136 Art Lab

Instructors  
Sasho Kalajdzievski, Math Part  
Derek Brueckner, Art Part



**Textbook:** *Math and Art: An Introduction to Visual Mathematics* by Sasho Kalajdzievski and R. Padmanabhan. [Note: the royalties for the books sold in the U of M bookstore go back to students through scholarship funds.]

The main themes of study include: golden mean, golden rectangles, Fibonacci spirals, symmetries and other organizing principles, frieze patterns, wall paper groups, tilings & tessellations, fractals, string art and conics, perspective drawing, Platonic solids and regular polyhedra, Escher-style hyperbolic art, and isotopy and homotopy of topological objects. Goal:

Scheme of Evaluation: Art Projects 40%, Midterm Exam, one hour 25%, Final Exam, two hours, April, date and place to be announced later, 35%.

Important dates: **Mid-term Break:** February 18-22. **Last day for voluntary withdrawal:** March 19, 2014.

The Faculty of Science and The University of Manitoba regard acts of academic dishonesty in quizzes, tests, examinations, laboratory reports or assignments as serious offences and may assess a variety of penalties depending on the nature of the offence. See [http://umanitoba.ca/admin/governance/governing\\_documents/students/868.htm](http://umanitoba.ca/admin/governance/governing_documents/students/868.htm) for details.

**MATH 1020 is not available to any student already holding a grade of "C" or better in any mathematics course with the exception of MATH 1010 or MATH 1190 or MATH 1191 (136.119). Not to be taken concurrently with any other mathematics courses with the exception of MATH 1010 or MATH 1190 or MATH 1191.**