

# Math is Art, Art is Math

Second Semi-Annual Workshop  
Department of Mathematics and Statistics  
Northern Kentucky University  
Friday, April 5<sup>th</sup> and Saturday, April 6<sup>th</sup>

On Friday, 3:30-5:30, Prof. Duk Lee of Asbury College will lead a hands-on session we call “paper math”: *Origami has been known as “child’s play”, but its perception is rapidly changing due to its theoretical/technical development and applications by scientists in many disciplines. People typically imagine crane or jumping frog in very simple representational forms when they think of origami, but modern origami techniques are capable of creating every detail of an animal, bird, insect, or fish, from a square sheet of paper without any adhesive or cutting. It is usually a painstakingly long process, though. We can also create an origami model with multiple sheets of paper. Each paper is folded exactly the same; then they are assembled together without glue into a 3-D form. This type of origami is called “modular (or unit) origami”. Discovering origami connections to mathematics and science is quite recreational, and rewarding. This workshop will be a great opportunity for participants to make various geometric shapes and paper airplanes that fly remarkably well and demonstrate basic aerodynamical principles. There will be a small display of origami models also.*



A dinner will be served following Duk’s presentation (at 6:00 p.m.). Reservations are required, because this opportunity is available for only a few (about 40 participants). First priority will be given to students and faculty in mathematics and statistics. But others who are interested will be considered, if slots remain after the 22<sup>nd</sup> of March.



If **you** are interested: contact Profs. Lisa Holden ([holdenl@nku.edu](mailto:holdenl@nku.edu)) or Andy Long ([longa@nku.edu](mailto:longa@nku.edu)).

Then Saturday morning (9a.m. - 11a.m), Prof. Robert Bosch, of Oberlin College, will lead us in an interactive session creating domino mosaics. Working with complete sets of double nine dominoes, how can we re-create an image?

Join us to find out!

Breakfast will be served at 8:30a.m.