

# New Special Topics Course: Semigroups and Combinatorics

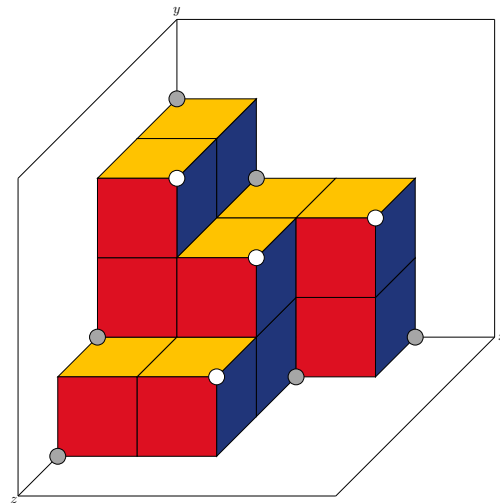
Where Geometry, Algebra, and Combinatorics Meet



**Course:** Math 596 Section 2  
**Semester:** Spring 2019  
**Schedule:** TTh 12:30pm - 1:45pm  
**Location:** GMCS 325  
**Prereqs:** Math 320 OR Math 330  
OR instructor's consent

## Highlights

- Learn abstract mathematics with concrete, visual examples
- Gain coding experience in **SAGE**
- Develop problem solving skills investigating open-ended questions
- Explore the mathematics of Chicken McNuggets!



**Course catalog:** Numerical and affine semigroups from geometric, combinatorial, and algebraic viewpoints; lattice point enumeration, generating functions, eventually quasipolynomial functions, and related topics in discrete geometry; computation methods, effective use of software in research.

\*\*\*\*\* No familiarity with semigroups or combinatorics required! \*\*\*\*\*

## Contact Info

Christopher O'Neill  
Office: GMCS 570

cdoneill@sdsu.edu  
<http://cdoneill.sdsu.edu/>