References for Math 580A, Topological Combinatorics, Fall 2017

A big chunk of the course will cover Matousek's book Using the Borsuk-Ulam Theorem.

Other course material is coming from:

Welker, V., Ziegler, G., Zivaljevic, R., Homotopy colimits -- comparison lemmas for combinatorial applications
Barmak, J. Algebraic topology of finite spaces and applications

Some surveys of topological combinatorics:


Zivaljevic, R., Topological Methods In Discrete Geometry, preliminary version

Applications of Borsuk-Ulam and equivariant topology


Blagojević, Pavle V. M., Ziegler, Günter M. Beyond the Borsuk-Ulam theorem: The topological Tverberg story, arxiv preprint


Topology of posets


McCammond, Jon; Noncrossing hypertrees, arxiv preprint