Pure Math 950
Nonself-adjoint Operator Algebras
K.R. Davidson

Class Meets: Tuesdays and Thursdays, 10:00–11:30 in MC 5046

Required Background:
- measure theory
- functional analysis
- complex analysis
- Banach algebras

Course Outline
- Function algebras.
  These are subalgebras of $C(X)$. We will look at general structure (boundaries, representing measures, Gleason parts) and answer some questions about analytic structure and approximation.

- Nest algebras.
  A nest algebra is the set of all bounded operators on a Hilbert space with a prescribed triangular form. The goal is to develop their structure, and characterize nest algebras up to isomorphism.

Textbooks There are no required texts. The following books will be on reserve in the library for 1-day loans.
- *Uniform Algebras* by T. Gamelin
- *Introduction to Function Algebras* by A. Browder
- *Nest algebras* by K.R. Davidson

Grading
- Assignments   75%
- Seminar and paper   25%
- no exam