

Syllabus for Math 6395

Graph C^* -algebras

Instructor: Dr. Mark Tomforde
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Office Hours: By Appointment.

Note About Office Hours: I encourage you to come by my office if you have any questions, need help with homework problems, or would just like to talk about the material. To make an appointment, please send me an email.

Meeting Times: MW 4:00PM – 5:30PM in 11 AH.

Course Description: This course is an introduction to graph C^* -algebras. We will begin with a quick introduction to operator algebras and C^* -algebras, and then look at a way to construct a C^* -algebra from a directed graph. We will study these graph C^* -algebras and develop a detailed theory that will allow us to describe much of the C^* -algebraic structure in terms of the corresponding graph. We will also see how the theory of graph C^* -algebras has applications to other parts of operator algebra, and how it can be used to illustrate many aspects of general C^* -algebra theory.

Attendance: It is vital to attend every lecture and take careful notes. It will not be possible for you to follow the material without attending lecture.

Class Notes: I am writing up detailed notes for this course. Part of your responsibility in the course will be to read the notes, correct typos, and give me feedback for improving them.

Grading: The final grade for the class will be based on class attendance, feedback on the course notes, and homework problems.

Special Needs: Any student with a disability or chronic health problem for whom special accommodations would be helpful is encouraged to discuss with the instructor the types of assistance that might be offered.