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## MAT 4930

**Mat 4930: Selected Topics in Math.****Instructor: Jason Johnson****Additional Resources:**

You will need to join the following courses and links to texts and readings will be added here throughout the semester. For the most part, we will not use any entire text, but the texts I link to are free and I highly recommend reading through them if you want to go a head start on a more advanced career in mathematics!

[www.goformative.com/join](http://www.goformative.com/join)

SXDF2T

[www.itempool.com](http://www.itempool.com)

**Summary:**

We will cover a collection of different mathematical subjects at various levels. We will start with graph theory and the fundamentals of proof. We will very quickly move into game theory and game trees. We will then move into topology and modern geometry.

Additionally, we will consider number theory and analytic techniques. The broad purpose of the course is to give students a flavor of modern mathematics and simultaneously help them to develop the skills surrounding the principal tools of mathematicians: proofs and proofing techniques.

**Grading:**

The majority of your grade will be determined by attendance and participation in class. There will be a selection of home works and projects and students will be

expected to complete either two home works or one project successfully. The projects can be done in groups.

There are approximately 48 scheduled classes currently. Attending 38 will earn full points for attendance. That guarantees a B. Completion of a homework successfully will guarantee a B+. Two home works or a projects will yield an A.

**Covid (and general issues) Statement:**

Please do you best to maintain communication with me and we will determine what needs to happen if you become ill or face outside circumstances that are beyond your control. All faculty at UF are absolutely dedicated to the success of their students, but we can't help you if there is no line of communication.



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