

	Time	Location
Meetings	W 11:25am-12:15pm	E1 105C

Instructor: Robert Ellis, Assistant Professor of Applied Mathematics

Office Info: E1 Bldg. Rm. 105C, 567-5336, rellis@math.iit.edu (with appropriate modification)

Office hours: M 3:15-4:15pm (Math 152 Priority)
 T 1:15-2:15pm (Math 430 Priority)
 W 3:15-4:15pm (General)
 F 11:20am-12:20pm (General)

Appointments and emailed questions are also welcome. I encourage you to request joint appointments so that more people can benefit from the discussion, or simply bring others with you. Any changes to office hours will be posted on the course homepage.

Course Home Page: <http://math.iit.edu/~rellis/491F06/> **Materials posted here, check often!**

Prerequisites: Very strong ability in proofs and consent of instructor

Text: none

Description. This is an independent study reading and research course centered around the analysis of the board game CLUE. Weekly 1-hour meetings with the instructor will be used to set the course of independent study for the participants for the rest of the week. The students conduct a coherent and convincing mathematical analysis of the game and/or variants thereof.

Grade Breakdown. The fundamental requirements for this course are as follows:

1. Weekly before-and-after progress reports. The following time-line applies for meetings and progress reports:
 - Wednesday meeting
 - Summary of plans for week, due Thursday 12 noon
 - Report of accomplishments for the week, due following Tuesday 12 noon
2. Midterm progress report due Tuesday, October 10. Summarizes accomplishments of the first half of the course. By this time all major avenues of investigation must be outlined, with significant progress in each.
3. Final report due Friday, December 1. Final report documenting all investigations (conjectures, empirical evidence, data structures, observations, proofs, and other results).
4. Presentation. To be made in some venue such as Math Club or department seminar, or other acceptable venue determined by instructor.

One letter grade will be earned for fulfilling each of the 4 bullets.

Full Participation. Full and roughly equal participation is expected of all students, to average 6-9 hours per week outside of the weekly meeting (this is a 3-credit course). It is expected to split report-writing roughly equally. Any student not fully participating by drop day will be recommended to drop rather than face a final grade deduction. I expect to be notified if anyone is not carrying their fair share of work; however, if the research proceeds in multiple tracks we must be aware that work might be compartmentalized.

Attendance. Wednesday meeting attendance is absolutely required. Other meetings scheduled independently must also be attended, given that full effort has been made so that all can attend.

Collaboration. Obviously this is a fully collaborative effort. However, each person individually is responsible for keeping track of and understanding the total progress of the group.

Academic Integrity. The Code of Conduct and applicable penalties in the IIT Student Handbook apply.