

BILL, RECORD LECTURE!!!!

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**Today:
Admin,
Ramsey Theory and Its
“Applications”**

Admin

Necessary Administrative

Everything in these slides is also on the written syllabus on the course website.

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Course Webpage:

<https://www.cs.umd.edu/users/gasarch/COURSES/752/S26/index.html>

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1. Taught by William Gasarch. Tu-Th 12:30-1:45 in CSI 1121.
2. TAed by Javier Marinkovic.

Necessary administrative stuff

- ▶ Course Website: Will post slides, notes, and HW there.
- ▶ Elms: will post recording.
- ▶ Gradescope: you will **submit HW** there.
- ▶ Gradescope: we will **grade HW** there.
- ▶ Regrade requests due within a week of the HW being graded.
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IF you are auditing this class for whatever reason- perhaps you are having a hard time getting permission to take it, or perhaps you like the material but don't want to take it, let me know and I will put you on the class email list and invite you to join the Piazza.

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- ▶ Email us- put 752 in the subject line.
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- ▶ Appointments (possibly on zoom, possibly at night)

What You Need For This Class

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- ▶ Ability to write proofs.
- ▶ There may be some short programming project. (This is **not** a course like **CMSC 412** where the project IS the course.)

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One was my fault, two were not my fault.
 - 3.5 There will be some in-class problems which count for the final grade.

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- ▶ There will be one in-class midterm, one in-class final.

Dead Cat Policy In Action

I need a student to plan the role of **Student**.

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Student I submitted HW **Thursday** at midnight thinking it was due then, and not at 12:30PM.

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I need a student to plan the role of **Student**.

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Bill The HW was due **Tuesday** so I **already gave you an extension!**

And stop calling me Shirley.

Homework: ChatGPT Policy

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5. **Upshot** If a problem is standard then ChatGPT will prob get it right, but so will you. If a problem is non-standard then ChatGPT will hallucinate.
6. This class is rather non-standard.

Homework: Human Policy

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The most common is that you both made some mistake that nobody else made. If we know this we can discuss and enlighten you!

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2. **Recommend** Make sure you understand what you are handing in.
3. If not you will crash and burn on the written exams.

Textbook

Required or Recommended Text None.

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Why?

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Why?

I reviewed all three. None are the way I would teach the course.

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You Can!

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If **for whatever reason** you are falling behind in the class, or are having trouble with the HW, see us in office hours or **you can make an appointment to see us!** Either in person or on zoom.

Why People Are Taking This Course-Part

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This course satisfies a requirement

Ramsey Theory and its “Applications”

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The first theorem says $R(3) \leq 6$. It turns out that $R(3) = 6$.

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Van der Waerden's Thm for 2-coloring For all k there exists $W = W(k)$ such that the following happens: For all COL: $\{1, \dots, W\} \rightarrow [2]$ there exists a mono k -AP.

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Complete Disorder is Impossible!

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I'm on the UMCP HS Math Competition Committee.

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