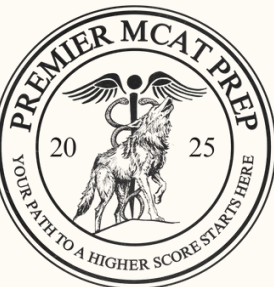


Premier MCAT Prep

Your path to MCAT success starts here.

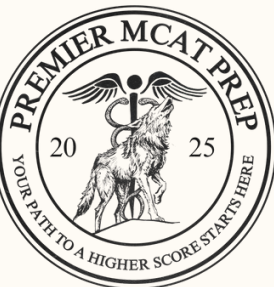
September 8, 2025

Physics



Meeting Agenda

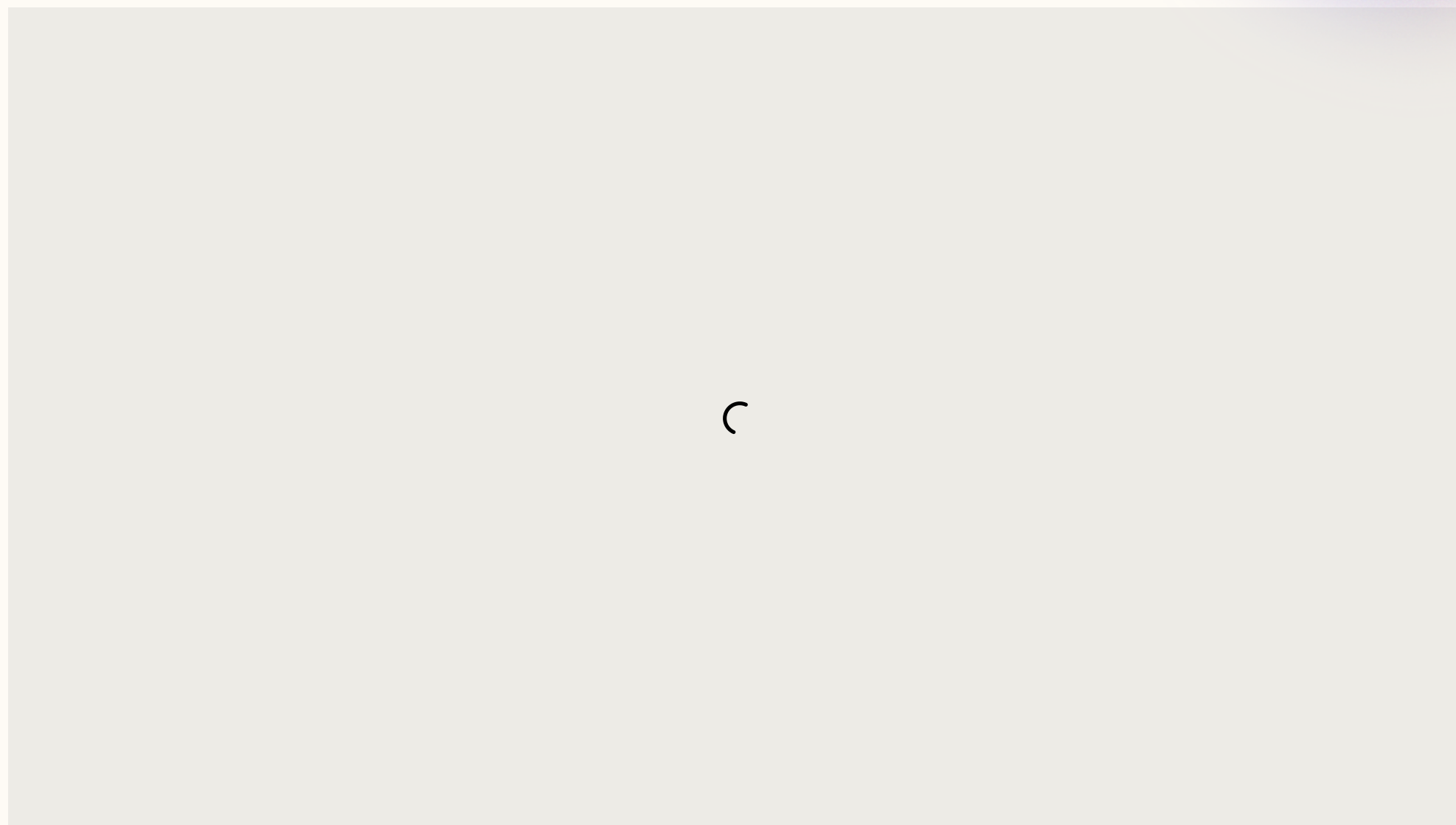
- *15 min of independent work*
- *15 min of group discussion*
- *20 min step-by-step breakdown*
- *5 min wrap-up & questions*



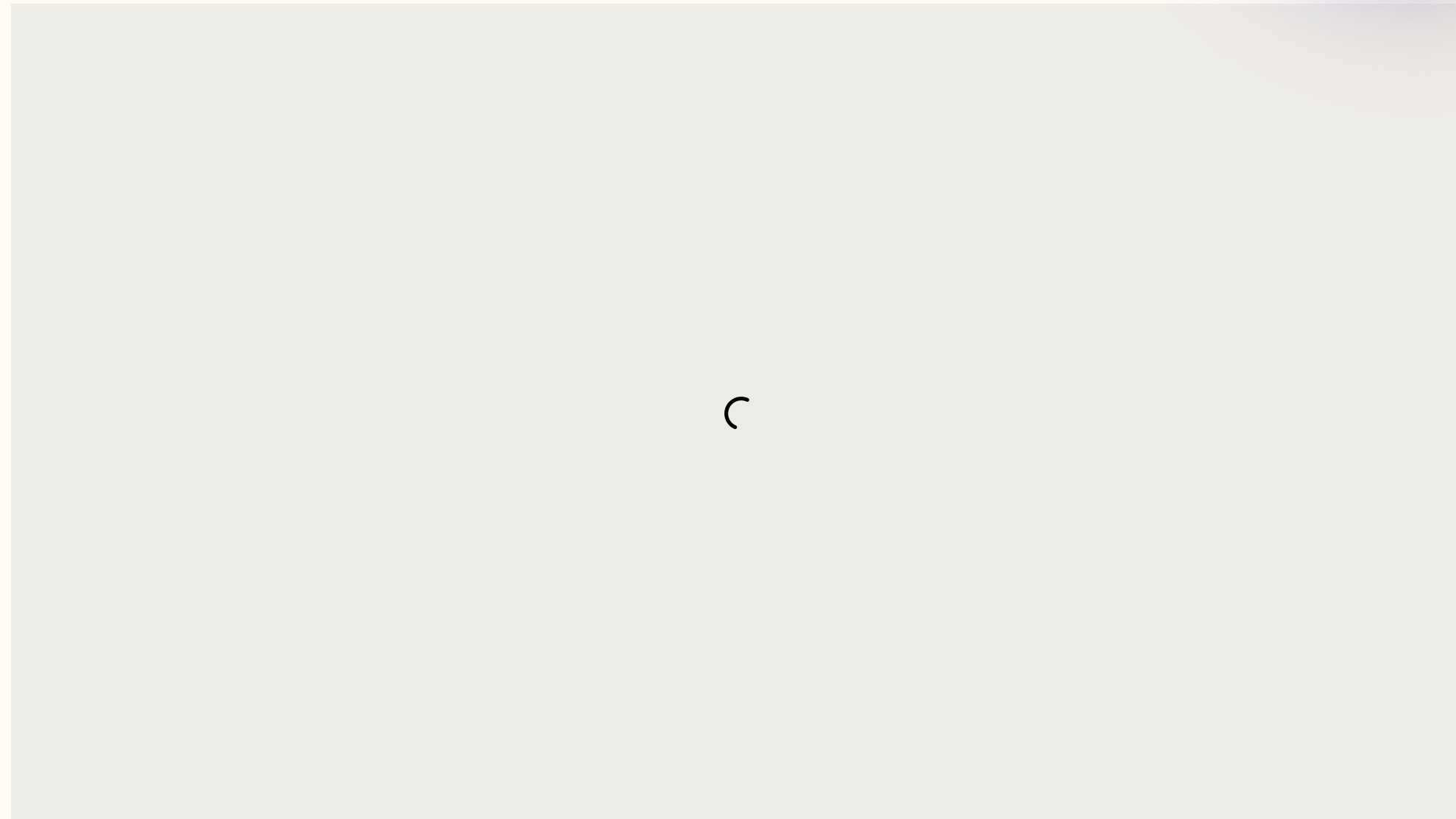
Download Today's Handout



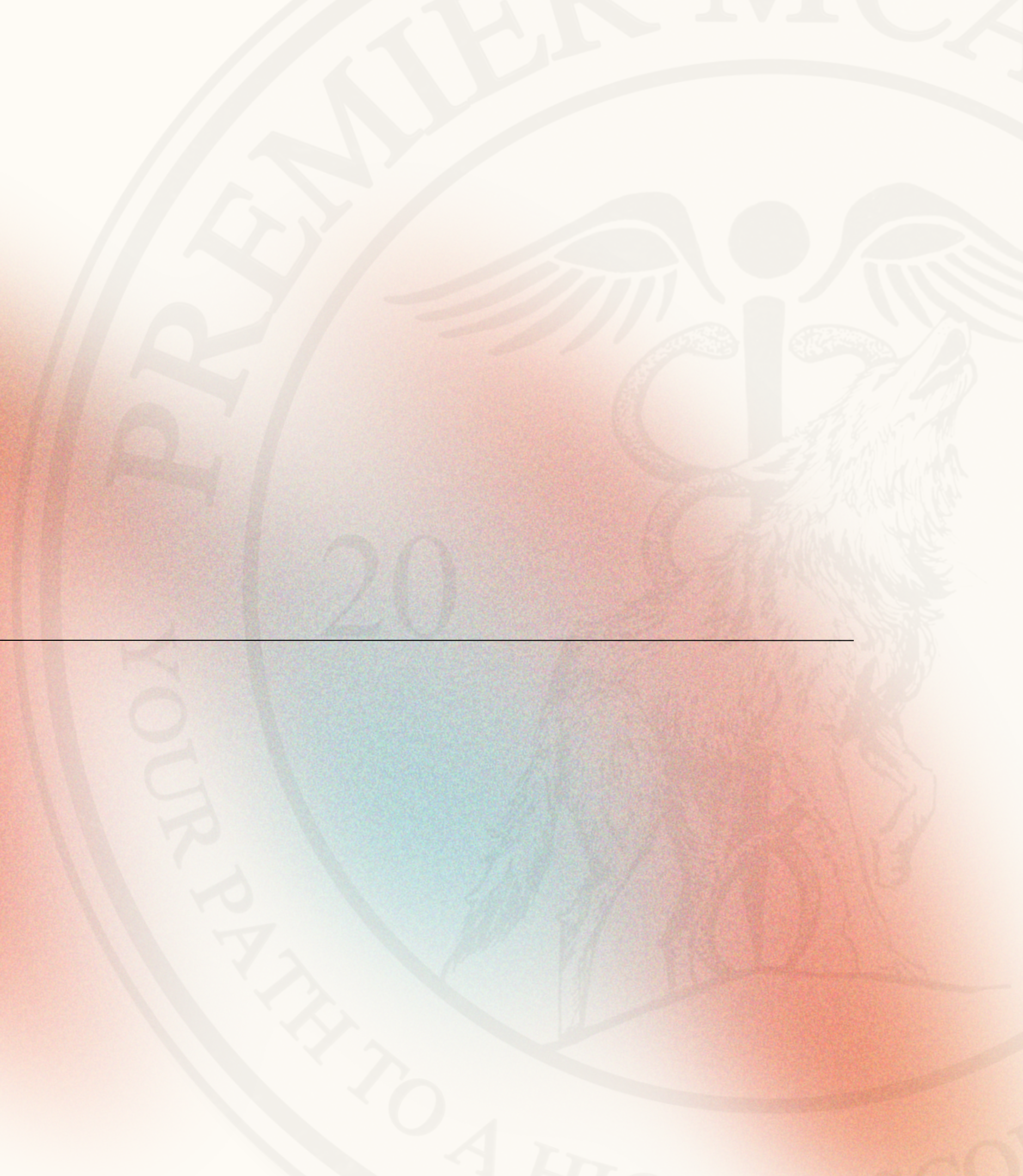
Independent Work



Group Discussion



Question Breakdown



Key Takeaways

- Kinetic and static friction principles
- Understanding capacitance **potential energy** equation + manipulation

BUT!

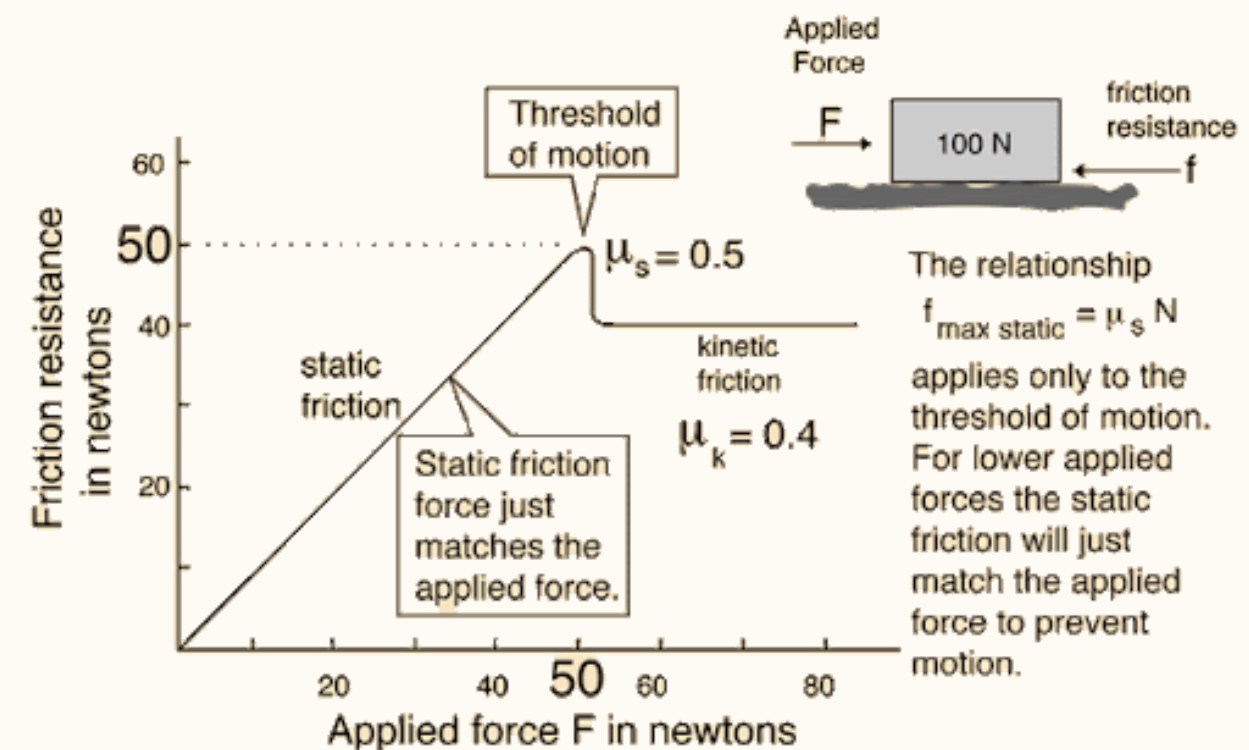
Since $Q = CV$ and $V = Q/C$ we can also write...

$$E = \frac{1}{2} QV$$

As:

$$E = \frac{1}{2} CV^2 \quad E = \frac{Q^2}{2C}$$

physicsthings.wordpress.com



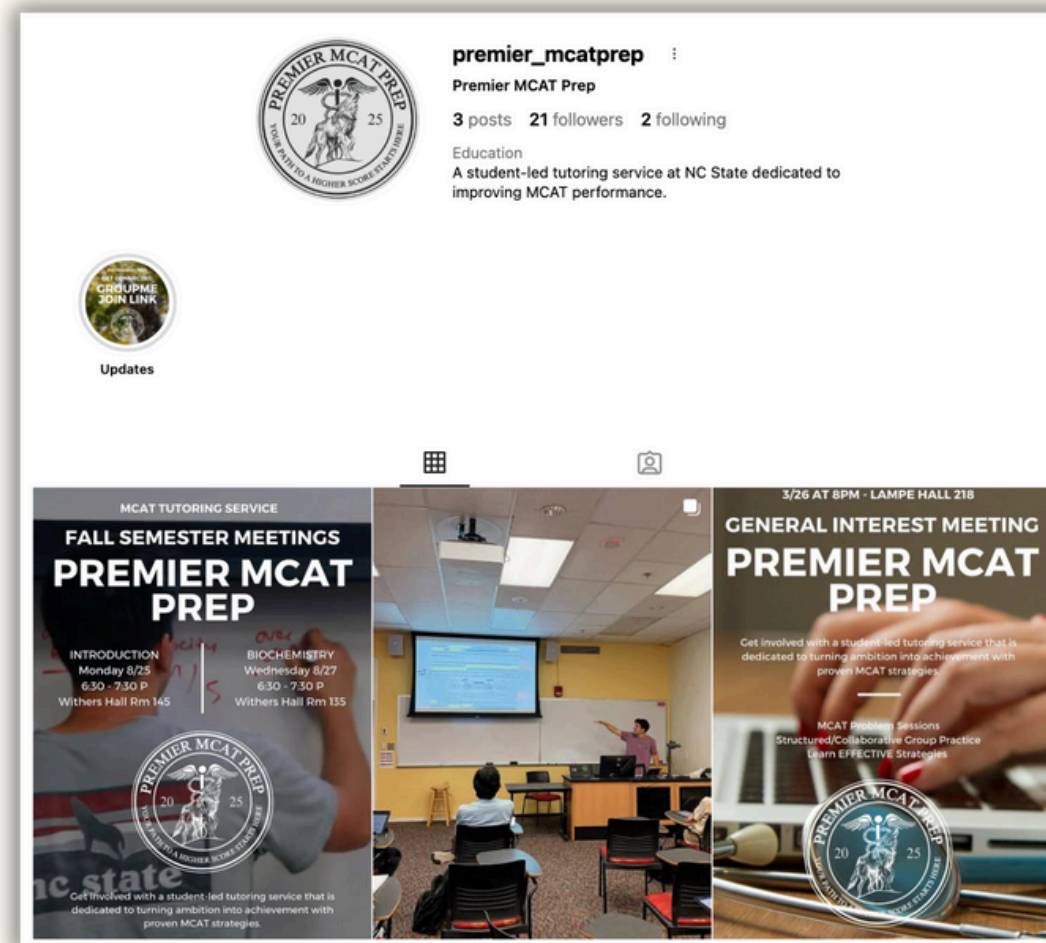
Share Your Thoughts



**What do you
want/expect from
Premier MCAT Prep?**



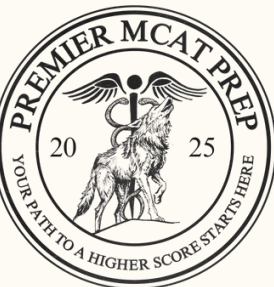
Stay Connected



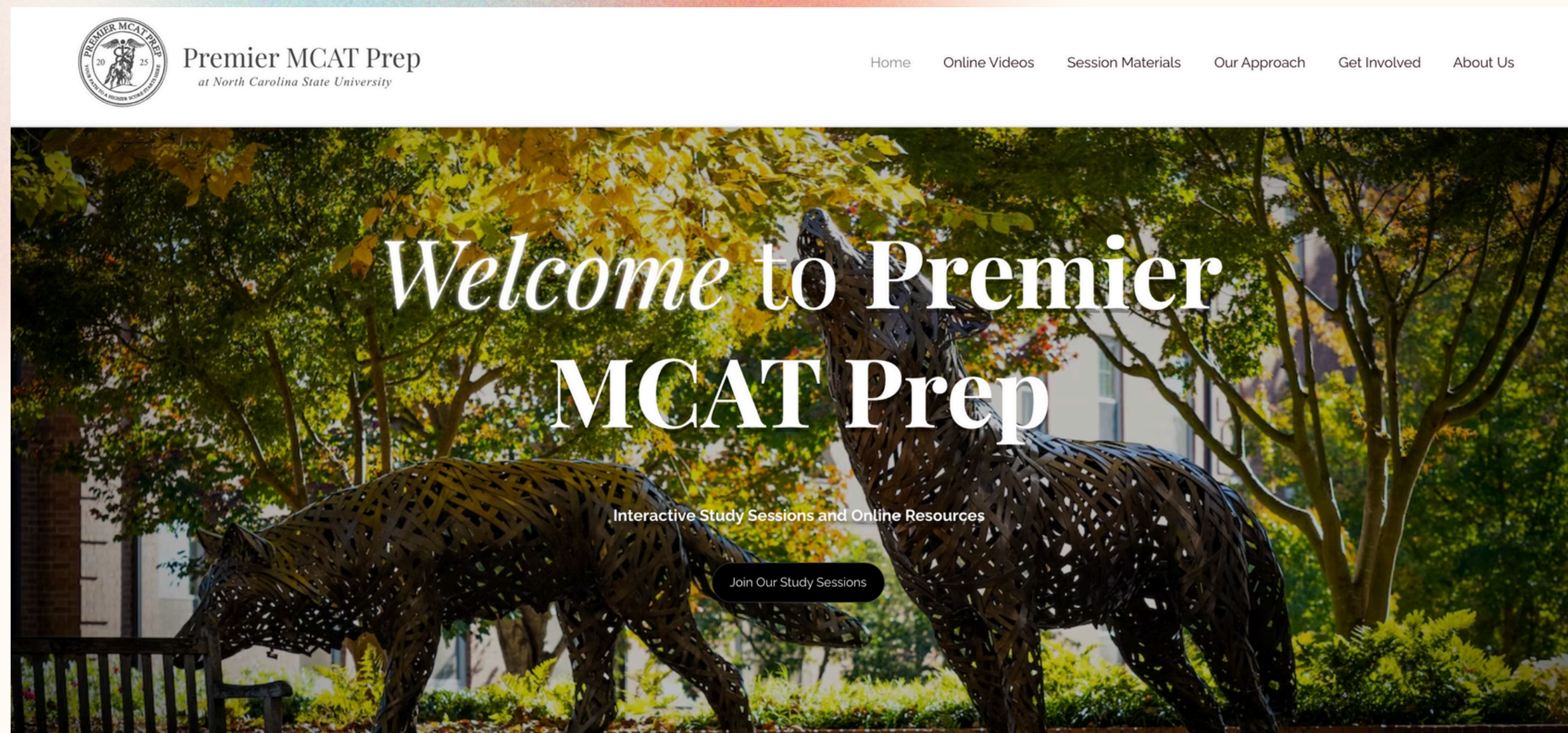
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 Premier MCAT Prep



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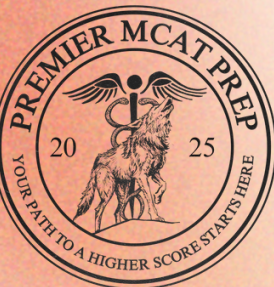
premiermcatprep-ncsu.org



Next Meeting

September 10th in Withers Hall Room 135

Biology



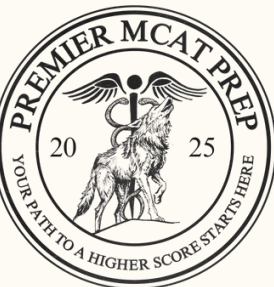
Executive Team

President: Bryce Lumbert (*bklumber@ncsu.edu*)

Treasurer: Ben Webster (*bkwesbte@ncsu.edu*)

Specialist Tutors:

- **Alex Dulay** (*jadulay@ncsu.edu*) – *Biochemistry & Physics*
- **Jay Vajrala** (*jrvajral@ncsu.edu*) – *Biology & Psychology/Sociology*
- **Ben Webster** – *Critical Analysis & Reasoning Skills*



Questions?

