



# American Infrastructure

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College Park Scholars – Science & Global Change Program

Computer Science: Cybersecurity Track

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CPSS340

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Overview: CPSS340 is a course focused on the interactions between American infrastructure and society. It analyzes the nature of infrastructure, its widespread applications, its effects, the politics behind infrastructure, and much more. The class culminates in an infrastructure survey of a facility administered by the Maryland Army National Guard.



Pictured: The 5<sup>th</sup> Regiment Armory for the Maryland Army National Guard

18 Willow Street, Annapolis, MD, 21401

Supervisors: Dr. David Tomblin, Lt. Colonel Beattie, Colonel Hubner

## Activities and Work:

- Lectures led by Dr. David Tomblin
- Infrastructure Journal logging observations of infrastructure in many aspects of life
- Analyzing, using, and creating ISR reports
- ISR of the 5<sup>th</sup> regiment armory

Capstone: Infrastructure analysis of the 5<sup>th</sup> regiment armory revealed many glaring problems which are too numerous to showcase here. Problems include but are in no way limited to:

- Water-damaged roof
- Crumbling Foundation leading to interior structure deterioration
- Severely damaged kitchen appliances and floors
- Out-of-date fire protection
- Exposure of electrical wires
- And much more

During the analysis, our class created an ISR for the building, which will be used by the MD Army National Guard in a bid to get the funds to repair their building. As someone who'd like to work in the field of IT, these issues are relevant when it comes to building, administering, and maintaining network infrastructures.



Severely damaged stove



Wall damage from crumbling foundation



Damaged and dirty air filter



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