



# CPSS340 - Service Learning Infrastructure and Society

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Civil Engineering

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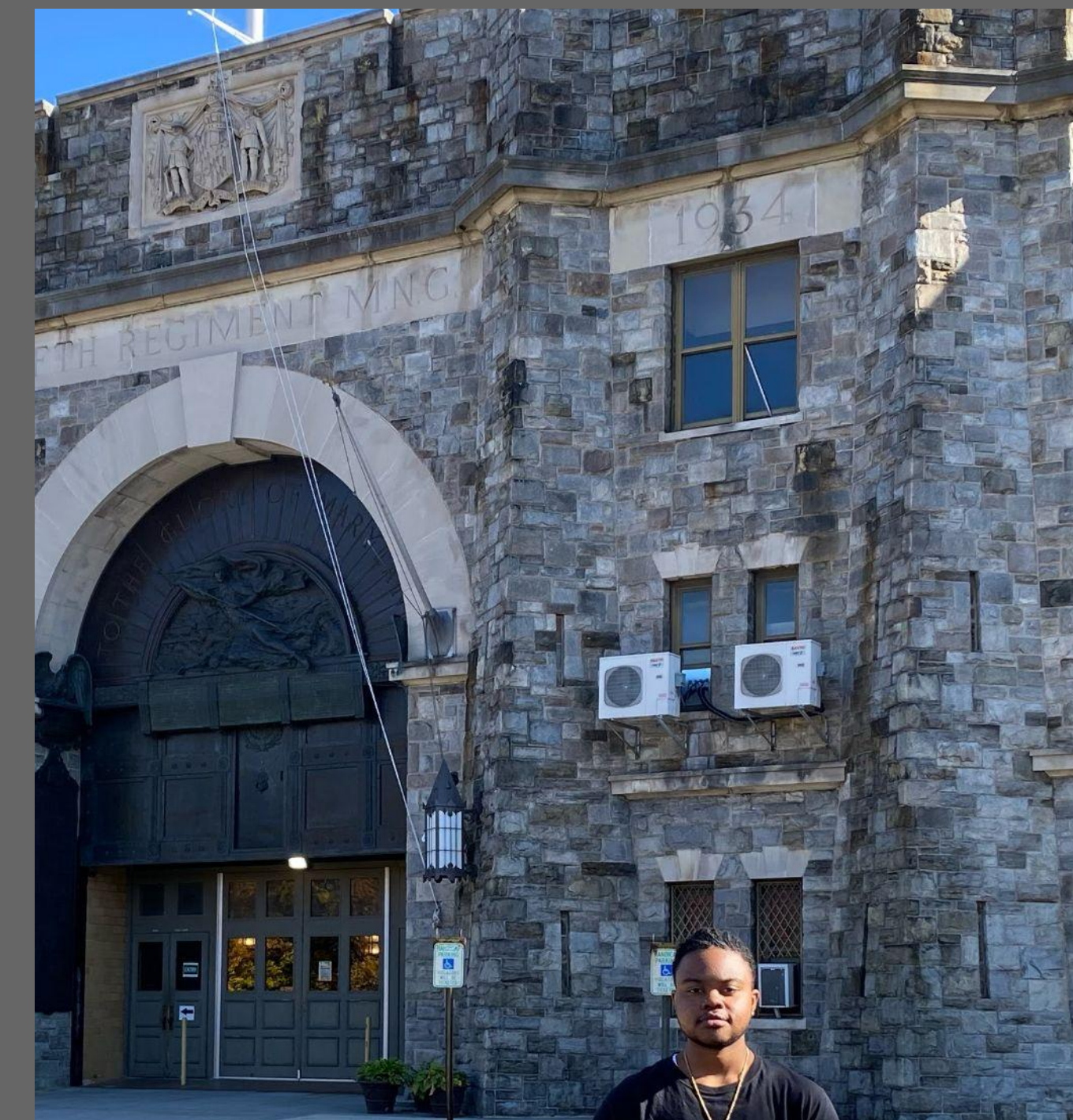
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## Course Overview:

CPSS340 is a course dedicated to the study of infrastructure; particularly, why infrastructure in America is in such a dilapidated state. In tandem with lectures by our instructor on the state of American infrastructure systems and the factors that cause their disarray, CPSS340 students like myself were given the opportunity to assist the 121st Engineer Regiment of the Maryland Defense Force (MDDF) in evaluating the state of military infrastructure in accordance to Installation Status Report (ISR) system guidelines.



CW2 Hastings, my ISR Inspection group and I on the roof of the University of Maryland Biomolecular Sciences Building during practice inspection.



Myself in front of the Fifth Regiment Armory.

## Activities:

- Lectures with Dr. Tomblin twice a week
- Scheduled training sessions with MDDF Engineers
- Practice ISR inspection of UMD campus facility
- ISR Inspection of Fifth Regiment Armory
- Installation Status Report compiled based on observations made during inspection by myself and my peers in groups.

## Service-Learning Site Information:

Name: Fifth Regiment Armory

Address: 2219 29th Division St, Baltimore, MD 21201

Supervisor(s): Dr. David Tomblin, Ltc. Beattie, Ltc. Sanford

Purpose: to support the training, automation, communication, and administration duties of the United States National Guard.



Images of damages at the site. The chimney (left) was struck by lightning and the vehicle lots (right) are riddled with large potholes.

## Final Project:- Installation Status Report

Being over 120 years old and receiving only absolutely necessary repairs, the Fifth Regiment Armory infrastructure is dilapidated and in generally poor condition. Our task as ISR inspectors was to assist the MDDF in identifying these infrastructure problems. Notable issues include:

- Damaged chimney, roof holes due to bricks
- Potholes in the parking lot large enough to cause vehicular damage or injury

## Impact:

Because the renovation of old and construction of new military infrastructure is rarely funded by the military, my peers and I who assisted the MDDF did a service for not just the engineers we shadowed, but the Maryland National Guard and U.S. Military as well. The ISR reports written by CPSS340 students were given to our site supervisor Ltc. Beattie, who then used them to create his own official ISR report to be sent to high ranking military officials to garner funding for renovations and repair of any infrastructure systems highlighted as being in need.

## Future Work:

As a prospective civil engineer, I feel I gained a lot of valuable knowledge as I took the course. The ISR inspection was particularly valuable, as we were given time to speak with professional engineers and discuss different aspects of the infrastructure of the armory with them, like the foundations of HVAC (heating, ventilation, air conditioning) systems.

## Acknowledgments:

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