

Teaching Practicum in High School Technology/Engineering at Doherty Memorial High School

An Independent Study (ISU) Report
Submitted to the Faculty of
WORCESTER POLYTECHNIC INSTITUTE
In partial fulfillment of the requirements
For the Initial Teaching Licensure in
5-12 Technology/Engineering

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This report represents the work of a WPI undergraduate student submitted to the STEM Education Center as evidence of completion of the Teacher Preparation Program. WPI routinely publishes these reports on its website without editorial or peer review.

Abstract

To obtain my initial teaching license in 5-12 Technology/Engineering, I completed my teaching practicum from January to May of 2024 (C and D term at Worcester Polytechnic Institute). For the first weeks, I observed my mentor teacher, Ms. Annette Cochran, at my placement high school, Doherty Memorial High School. Then, I began to create lesson plans and actually teach my first course, Computer Integrated Manufacturing (CIM). I taught my second course, Civil Engineering and Architecture (CEA) a few weeks afterwards. Both classes are under the Project Lead the Way (PLTW) curriculum. I was assessed based on the standards set forth by the Candidate Assessment of Performance (CAP), in which I was observed by my program supervisor, Ms. Roxanne Donahue, several times throughout my student teaching.

My ePortfolio can be accessed through the link or through the QR code below.



<https://sites.google.com/view/rvalencia-teaching-portfolio/home?authuser=2>

Outline

Home Page

- Contents: About Me, Positionality Statement, and Teaching Philosophy

WPI Education

- Contents: Subject Matter Knowledge, Teaching Pedagogy, and Relevant Work Experience

Education Policy in Massachusetts

- Contents: Summary of Massachusetts Education Reform Act, No Child Left Behind Act, Every Student Succeeds Act, and the Candidate Assessment of Performance

My Practicum

- Contents: Overview of Practicum and Classes Taught
 - Subsection: District & School Overview
 - Subsection: Overview of the Candidate Assessment of Performance (CAP) and The Seven (7) Essential Elements of CAP