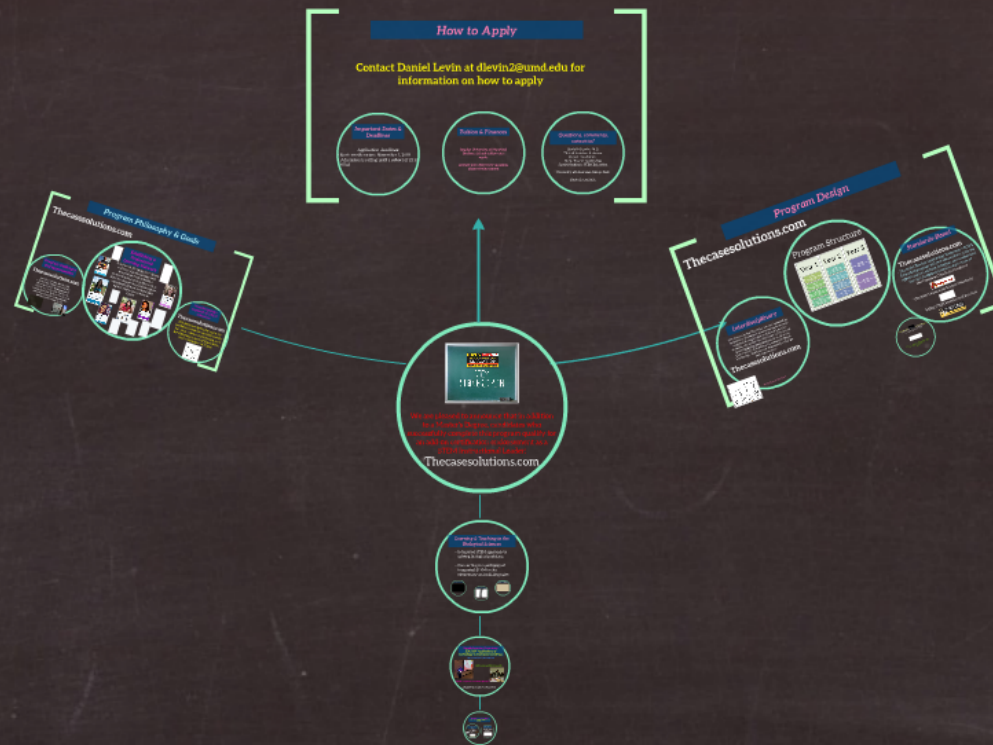


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Teach Plus: Mobilizing a New Generation of Teacher Leaders



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Teach Plus: Mobilizing a New Generation of Teacher Leaders



We are pleased to announce that in addition to a Master's Degree, candidates who successfully complete this program qualify for an add-on certification endorsement as a STEM Instructional Leader!

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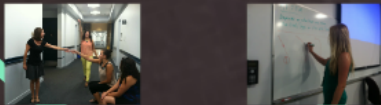
Program Philosophy & Goals

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Program challenges and opportunities

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The M.Ed. Teacher Leadership: Elementary STEM Education is a rigorous, content-based program that allows in-service teachers to engage with the skills, practices, and core ideas of engineering, physics, biology, and mathematics



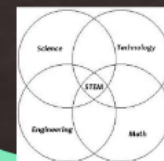
Establishing a Professional Learning Network

Teachers in the program will use cutting edge technology and innovative tools to build a Professional Learning Network as they develop personal philosophies regarding issues of authenticity, equity, and achievement in STEM.

Transdisciplinary approach to STEM education

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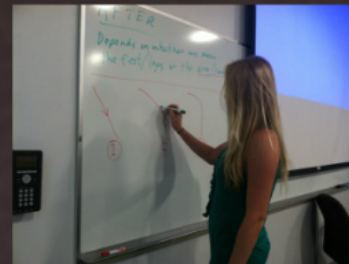
This program opens the space for teachers to explore the relationships between science, engineering, and mathematics as part of the holistic, 'meta-discipline' of STEM.



Program challenges and opportunities

Thecasesolutions.com

The M.Ed. Teacher Leadership: Elementary STEM Education is a rigorous, content-based program that allows in-service teachers to engage with the skills, practices, and core ideas of engineering, physics, biology, and mathematics





Christine E Ramirez
@ramirez01 FOLLOWS YOU
Elementary Teacher, MCPS
Washington, D.C.
ramirez1090.wordpress.com

Tweet to Mes

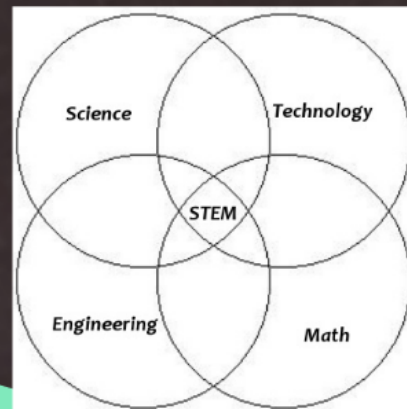


J. Levin
@jlevin
Teacher, teacher education, father, loud talker, abstract martial arts, aging singer.

Transdisciplinary approach to STEM education

Thecasesolutions.com

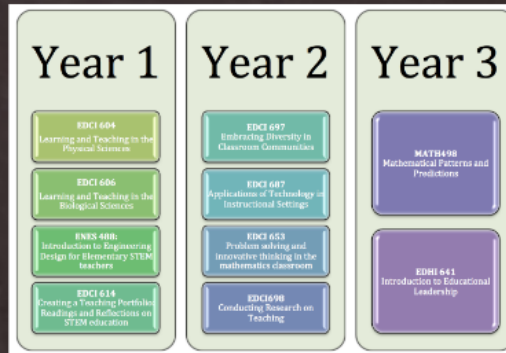
This program opens the space for teachers to explore the relationships between science, engineering, and mathematics as part of the holistic, 'meta-discipline' of STEM.



Program Design

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Program Structure



Interdisciplinary

The Courses in the The M.Ed. Teacher Leadership: Elementary STEM Education program have been designed through collaboration with faculty, students, and staff in the University of Maryland iSchool <http://ischool.umd.edu/> as well as the Departments of Teaching & Learning, Policy & Leadership, Mathematics, Entomology, Biology, and Engineering .

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Standards-Based

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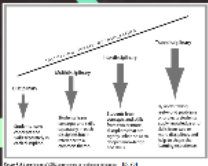
- The M.Ed. Teacher Leadership: Elementary STEM Education program will provide teachers with the opportunity to analyze, interpret, and understand the core disciplinary ideas and practices of The Common Core State Standards



The Next Generation Science Standards



MSDE STEM Standards of Practice



Notes from STEM Learning Designing a Science, Technology, Engineering, and Mathematics (STEM) Program Inside a Classroom

When students learn in the classroom, meet, study, Grow, Connect, during the school year and every day for a season in early summer.



We follow the 12-week calendar and meet but to make sure the course schedule for YOUR classroom.

Interdisciplinary

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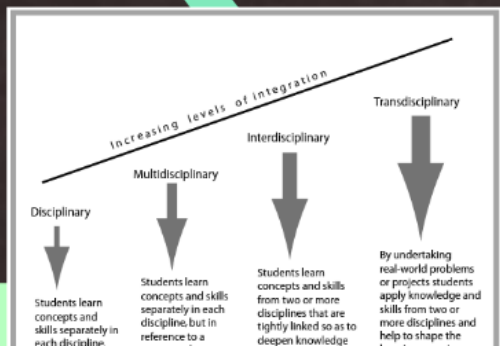


Image from STEM Lesson Essentials: Integrating Science, Technology, Engineering, and Mathematics (2013). Vasquez, Snelder, & Comer

Learn

Learn

Intro
Design

Creati
Read

Standards-Based

Thecasesolutions.com

- The M.Ed. Teacher Leadership: Elementary STEM Education program will provide teachers with the opportunity to analyze, interpret, and understand the core disciplinary ideas and practices of The Common Core State Standards



The Next Generation Science Standards



MSDE STEM Standards of Practice



When, where, & how the classes meet?
Classes meet once a week at the University of
Shady Grove Campus during the school year and
every day for 3 weeks in early summer