

From: [Patrick Kohl](#)
To: [Faculty Senate](#)
Subject: Submission for Mines @150 Signature Student Experience
Date: Monday, November 2, 2020 2:47:47 PM
Attachments: [HonorsMPD.pdf](#)
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Greetings,

We're pleased to submit the attached expression of interest for the Mines@150 Signature Student Experience RFP. This is a joint effort between physics, AMS, and EDS. Please let me know if you have any questions.

Pat

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Honors Math/Physics/Design

A Themed, Interdisciplinary Honors Experience for the Mines Core

We propose creating two pilot-scale cross-disciplinary core courses that take the place of calculus II/III, physics I/II, and design I/II, with a working title of Honors Math/Physics/Design I and II. Without changes to the total contact hours or credit load, the course content would be completely integrated, with topics chosen to involve all three departments and instructors from each department taking the lead as appropriate. This creates a curriculum whose boundaries are purposefully blurred to provide a distinctive experience (and recruiting tool) for new students working in robust student cohorts capable of producing the positive impacts on performance, retention, and wellness associated with a learning community. Students will identify, define, and solve authentic problems related to such areas as railguns, oscillators, and EMI emissions. These problems would require collaborative thinking to integrate the technical with the contextual and design real-world solutions.