

**From:** [Paula Farca](#)  
**To:** [Faculty Senate](#)  
**Subject:** Mines Student Signature Experience  
**Date:** Monday, November 2, 2020 11:04:17 AM  
**Attachments:** [Mines Student Signature Experience STEAM and Environmental Justice in Mining.pdf](#)

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Dear Senators:

Please consider our expression of interest description. Our title is "STEAM and Environmental Justice in Mining". Our interdisciplinary endeavor brings together Drs. Paula Farca (HASS), Alina Handorean (EDS), and Jurgen Brune (Mining Engineering). Thank you.

My best,  
Paula Farca

Paula A. Farca, PhD  
Teaching Professor of Literature  
Program Director, Culture, Creativity, and Communication  
Humanities, Arts, and Social Sciences  
Colorado School of Mines  
414 Stratton Hall  
Golden, CO 80401

<https://www.youtube.com/watch?v=KVYQzBrBYHo>

## Mines Student Signature Experience Faculty Senate Funding

Title: STEAM and Environmental Justice in Mining

Faculty: Dr. Paula Farca (Humanities, Arts, and Social Sciences), Dr. Alina Handorean (Engineering, Design and Society), Dr. Jürgen Brune (Mining Engineering)

This interdisciplinary McBride honors course on mining and on environmental justice was taught in Fall 2019 and brought together three professors with different fields of expertise from three departments on campus. We plan to expand its offering to undergraduate students across campus and propose an interdisciplinary model and a novel critical framework for STEM courses on energy and environment.

Our collaborative course taught by HASS, EDS, and Mining Engineering faculty raises awareness about environmental challenges and supports students' self-expression, creativity, and collaboration. STEAM and Environmental Justice in Mining introduces students to situations in which they tell stories on environmental justice not only through technology but also through their artistic vision. The goal of this course is to help students create new, visually pleasing, and environmentally just STEAM projects on mining that represent stakeholders equally and equitably. We also hope to promote a collaborative dialogue on environmental justice and mining; develop interdisciplinary approaches; and understand the human-environment relationships.