

MSU STEM EDUCATION ALLIANCE MEETING
December 14, 2017
11:30 a.m.-1:30 p.m.
International Center, Room Spartan B&C

Overview

The Winter STEM Education Alliance Meeting will highlight the *transformation of gateway physics courses and the vision for introductory physics education at MSU*. Multiple presenters from the Department of Physics and Astronomy will describe their exciting lecture and laboratory course transformation efforts. The meeting will feature short individual and panel presentations with time for questions and discussion. Like previous STEM Alliance meetings, the goals are to improve communication, start conversations, and facilitate collaborations across campus.

Agenda

11:20 a.m. **Lunch begins**

11:40 a.m. **Welcome and Overview**

Cori Fata-Hartley, Assistant Dean for Curriculum Coordination, College of Natural Science

Introduction: Transforming Gateways Physics Courses

Stuart Tessmer, Associate Professor and Associate Chair, Physics and Astronomy

11:45 a.m. **How do you change a lecture to improve student learning and incorporate authentic scientific practices? *P-Cubed***

Paul Irving, Assistant Professor, Physics & Astronomy

12:00 p.m. **How do you design a course to target specific content that students should learn? *P@CL***

Lisa Lapidus, Professor, Physics & Astronomy

12:15 p.m. **How do you design a physical science course to teach non-science majors? *ISP***

Saul Beceiro Novo, Assistant Professor, Physics & Astronomy

12:30 p.m. **What is the vision for where introductory physics courses are going? *BLISS***

Vashti Sawtelle, Assistant Professor, Physics & Astronomy and Lyman Briggs

12:45 p.m. **What is the process we're undertaking for this transformation? *DATA Lab***

Danny Caballero, Assistant Professor, Physics & Astronomy

1:00 p.m. **Plans moving forward, Panel Discussion**

Phil Duxbury, Professor and Chair, Physics & Astronomy

1:25 p.m. **Wrap-up**

Cori Fata-Hartley, Assistant Dean for Curriculum Coordination, College of Natural Science

Save the date for the next STEM Education Alliance Meeting:
Creating a Coherent Gateway: STEM Gateway Teaching Fellows
Thursday April 26, 2018
Time: 11:30 a.m. – 1:30 p.m.
Location TBD