

Methods courses for science and engineering pre-service teachers: Similarities, differences, and implications

Panelists

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Methods Courses for Pre-Service Teachers of Science and Engineering

Methods courses for pre-service teachers of science and engineering/technology may share learning goals, including disciplinary content knowledge, practices, assessment and classroom management. They may differ in key respects – pedagogical content knowledge, grade level, student performance standards. Panel

Questions include:

- **Needs:** What needs of pre-service teachers learning to teach with design do you address regularly, and how do you do this?
- **Challenges:** What do you find are the greatest challenges in including engineering and design into your courses or workshops?
- **Tasks:** What kinds of design tasks do you have your learners do, and what are key features about those tasks that you like? Why?
- **Realities:** What realities about the classroom instruction and pre-