Integrating Teaching and Research
{ Not Just for Superhero Faculty

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• Create a workshop to stimulate thinking about the value of integrating teaching and research

• Why now?
  › Boise State’s emergence as a research university
  › Expectation of excellence in scholarship and teaching
  › 50% growth in STEM student enrollment in 5 years

The Project
• Local stories: Provide a forum for sharing strategies and best practices for integrating teaching and research
• Humanize a superhuman feat: Real colleagues who have the same resource and time challenges
• Simple video technology

Featuring Real People

http://www.amazon.com/Flip-MinoHD-Video-Camera-Generation/dp/B0040702HU/ref=sr_1_4?ie=UTF8&qid=1362539912&sr=8-4&keywords=flip+camera
Workshop Format  1.25 hours

• 5 minutes  Welcome and introductions around the room
• 5 minutes  The Literature (handout)
• 10 minutes  1st video (2 faculty - Political Science & Biology)
• 13 minutes  Discussion at tables
• 10 minutes  2nd video (2 faculty – Art and Materials Science/Engr)
• 13 minutes  Discussion at tables
• 9 minutes  Generate and gather ideas together... how are people integrating teaching and research
• 10 minutes  Discussion about the value – for individuals and for the institution
The Literature

Please see literature and references handout
...the role of research and what students and teachers do
• inquiry-based learning allows both researchers and students to build knowledge and negotiate meaning.

• The scholarship of teaching and learning (SoTL) allows scholars to bring an inquiry process to better understand their own teaching and students’ learning

  – Note: SoTL work generally involves students as human subjects and, as such, requires IRB approval

Teaching and research are both about learning: Pedagogy and SoTL
The Reality
What is the value of integrating teaching and research? Why bother?

What strategies do you currently use to integrate teaching and research?

Questions and ideas to stimulate thinking
Dr. Will Hughes
Associate Professor of Materials Science and Engineering

http://www.youtube.com/watch?v=PIYE3FPuuFo&feature=youtu.be
• What themes did you hear in Will’s story?
• What do these stories reveal about the integration of teaching and research with respect to
  – Why it matters?
  – The role of students?
  – Our role as faculty?
  – Finding efficiencies?
  – How integration unfolds over time?
  – How integration contributes to improved learning for students? or to richer and more productive research?

• What strategies do you use to integrate teaching and research?

Discussion Questions
• What strategies are you using?
• Do strategies vary by type of institution?
• How can institutions foster a campus culture of integrating teaching and research?
• What are the challenges?
• Do you want to create a workshop like this on your campus?

What’s happening on your campus?
• Center for Teaching and Learning
• Faculty: Janice Neri, Ross Burkhart, Juliette Tinker, Will Hughes
• Students: Dawn Mikelonis & Travis Denham
• Partnership with the STEM Station*

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Workshop handout, videos, PowerPoint, materials posted at:
http://stem.boisestate.edu/for-faculty-staff/integrating-teaching-and-
research/

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THANK YOU