

Definitions of Interdisciplinary Research: Toward Graduate-Level Interdisciplinary Learning Outcomes

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Interdisciplinary approaches are necessary for attacking the most critical technological and socio-technological challenges facing the world today, including climate change, sustainability, energy, and public health (NIH, 2006; NSF, 2006). Graduate students and their training programs are recognized as central to increasing interdisciplinary research capacity. The strategic plan of the U.S. National Science Foundation (NSF) states: "Future generations of the U.S. science and engineering workforce will need to collaborate across national boundaries and cultural backgrounds, as well as across disciplines" (NSF, 2006, 6).

Despite the proliferation of interdisciplinary graduate programs designed to fill this need, there is virtually no archival literature identifying learning outcomes, methods, or benchmarks for assessing interdisciplinary gradu-

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