Please announce and share widely with your colleagues:

The Colleges of Education, Science, Technology and Agriculture are pleased to offer:

**EDCI 590/TECH 581 Methods of Integrated STEM Education**

Fall of 2015: Tuesdays from 2:50-5:40, 3 credits, CRN: 15381 or 11292

Designed broadly for juniors, seniors and graduate students with an interest in STEM education and specifically pre-service and in-service teachers.

This methods course will focus on operationalizing the theoretical pedagogical approaches to integrated Science, Technology, Engineering and Mathematics (STEM) education. Students will collaboratively and cooperatively investigate, plan and deliver integrated learning experiences appropriate for secondary education. Course content will blend philosophical considerations with practical application. Undergraduate and graduate students in these areas are encouraged. Currently practicing teachers interested in integrated pedagogies are encouraged to participate and should contact the instructor.

The course goals are:

1. Engage in instructional conversations, collaboratively share instructional resources, and develop a sense of community for integrated STEM learning and teaching.
2. Contextualize STEM learning in authentic contexts.
3. Explain and apply socially and culturally relevant pedagogy in the context of STEM learning.
4. Discuss levels and types of integrated STEM content, pedagogy, and ways of knowing.
5. Develop and disseminate integrated STEM learning experiences.
6. Implement, assess and reflect on integrated STEM learning experiences.
7. Students will be able to articulate a framework explain integrated STEM education.
8. Students can adapt existing singular discipline curriculum resources to leverage connections across disciplines to facilitate integration.

For more information and a course syllabus, please contact one of the course instructors:

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