



Integrating Academic and Technical Content into Meaningful STEM-related Projects *A Workshop for Faculty*

Join faculty teams in a workshop that will highlight recently completed STEM-related integrated projects ready for use in both the technical and academic classroom. The directors of the U.S. Department of Education-sponsored **STEM Transitions** project will also lead you through the process of developing your own integrated projects that use context from existing technical courses to make mathematics and science concepts meaningful to all students. The resulting projects developed by faculty teams will provide contextual lessons for use in both technical and academic courses. The ideal faculty teams will be comprised of math, science, and technical faculty members from the same institution.

What to Expect:

How to Take Advantage of Free Tools Available Now

- A guided tour of web-based integrated projects ready for use in math, science and technical areas.
- Strategies for incorporating the STEM Transitions projects into your courses.

How to Develop Your Own Integrated Projects

- A review of guidelines for developing integrated projects combining academic and technical content.
- Identifying embedded math and science content in technical courses.
- Prioritizing “sticking points” – those academic concepts that are common barriers for many students – into topics for integrated projects.
- Identifying commonalities in math, science and technical courses that may be masked by conflicting terminology.
- Identifying strategies for contextual instruction.
- Creating and using authentic assessment tools.
- Working within faculty teams to begin outlining an integrated project that will address specific learning outcomes in both a technical and academic course.

What to Bring:

- A copy of the syllabus, including student learning outcomes, for any course for which you’d like to develop an integrated project.
- Copies of standards (academic or industry) your course must address.
- Topics for projects you’ve always wanted to develop but have never had the time to begin.

To request more information about hosting a STEM Transitions workshop at your institution, contact:

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