LINC Phase II New Activity: Competency Performance Recording for Learning (CPRL)

Results:

Impact of Trial CPR-L on SABC/STEM Summer Double Bridge Chemistry Class: 2009-2012
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Results:

# STEM Research Presentation Awards Pre/Post CPRL Methods (Intro to Chemical Research)

- Pre-CpRL-2005: 4
- Pre-CpRL-2006: 3
- Post-CpRL-2007: 5
- Post-CpRL-2008: 10
- Post-CpRL-2009: 10
- Post-CpRL-2010: 8
- Post-CpRL-2011: 8
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More Results

By request, the CPRL process has been presented at numerous venues, and received favorable feedback:

- Dr. John K. Coleman & Valerie Harris – National Science Foundation SEIS HBCU-UP Meeting, Las Vegas, NV. 9/4-7, 2007

- Dr. John K. Coleman – National Science Foundation, QEM Workshop; New Orleans, LA 10/25-27, 2007
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- Dr. John K. Coleman – National Science Foundation, Information on Effective STEM Instructional Strategies; Baltimore, MD 11/2509, 2012

- Dr. John K. Coleman – National Conference on Learner-Centered Teaching. Tulsa, OK. April 12-14, 2010
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Opportunities

• The CPRL quickly and positively impacts learning

• Process is replicable and can migrate to other disciplines and other locations
**SWOT Analysis: CPR-L**

**Strengths & Opportunities - CPR-L**
- Strong integrated Technology components (tablet PCs, smartboards, interactive white boards, video, audio)
- Methodology linked to researched best practices for learning
- Strong innovation element in design: 21st century technologies + best practices protocols
- Produces results (See performance charts)
- Homework completion process generates summative evaluation instruments, promotes good study habits, and process thinking

**Weaknesses & Threats: CPR-L**
- Tablet PCs with audio/video recording capability required for homework completion. Represents student or school investment. (Hardware becoming more affordable and readily accessible. Many students already have them)
- Requires classroom with projection capability
- Instructors without strong course content knowledge impede process
- Instruction tools must include Course Concept Rubrics and problems aligned with course concepts to guide targeted learning

**Opportunities & Threats - CPR-L**
- Process is replicable and can migrate to other disciplines and other locations.
- Instructors can be trained on CPR-L process through workshops, online support

**Funding for technology support**
- Process for ensuring that instructors have adequate course content knowledge