

TEAC Research Plan for Claim #3

1. CLAIM #3: Students Are Prepared to Use Instructional Technology To Enhance Instruction

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4. Research Questions Related to the Claim

The committee decides to work on the claim through three questions:

Question 1: Do students have knowledge to use instructional technology to enhance instruction?

Question 2: Do students have skills to use instructional technology to enhance instruction?

Question 3: Do students have disposition to use instructional technology to enhance instruction?

5. Identified Measures with a Rationale for Each Measure

Question 1: Do students have knowledge to use instructional technology to enhance instruction?

Comment: Whether students have the knowledge is the foundation for the class application of the instructional technology. Without a solid knowledge base, no application is possible.

Measure 1: MDE Exit Survey

Q 30 “How well do you agree with each regarding your level of preparation to USE TECHNOLOGY TO MAXIMIZE STUDENT LEARNING:

I am well prepared to.

3001 integrate educational technology into my classroom instruction.

3003 use educational software to bring new learning opportunities into my classroom.

3004 use technology to organize and manage my student records.

3005 support the use of a variety of technology in student work.

3006 support my students' use of technology to demonstrate conceptual understanding.

Q 39 How much did your Teacher Preparation Institution contribute to your ability to . . .

3101 integrate educational technology into your classroom instruction?

Rationale: The questions in the MDE student survey are the same questions we would like to ask. The five survey items under Question #30 and one survey item under Question #39 were designed by MED to find out if the educational institute the students are in has prepared them well for utilization of instructional technology in their teaching. So, the committee feels the MDE data will have high level of validity for our clam.

Measure 2: Grades in EDU 290: Technology in Education course or its equivalent

In EDU 290 or its equivalent, students will learn to operate various technology-based software programs and hardware equipment; select and assess instructional media materials, courseware, and software; and integrate technology and media into K-12 instruction. We plan to collect the grades students earned from the previous four semesters. If necessary, we will look into variables such as the student status (taken as

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freshmen, sophomore, junior, senior) and student gender (to see if male and female students are prepared equally well).

Rationale: We believe that due to the content of the course, the grade students earned in the course reflects the knowledge they have mastered in order to use instructional technology to enhance instruction.

Measure 3: Students' Electronic Portfolio

Students are required to create an electronic portfolio upon their graduation based on the seven standards required by the Michigan Department of Education.

Rationale: We believe that narratives and artifacts by students in *Standard 7: Technology Operations and Concepts* will provide the evidence of students' knowledge of using instructional technology to enhance instruction.

Question 2: Do students have skills to use instructional technology to enhance instruction?

Comment: the committee feels this question is a development of the first question. This question looks at the skills which are based on the knowledge. The committee feels that the knowledge base of educational technology only provides the potential and the skills provide the possibility for application.

Measure 1: 2008 Alumni Survey

Q. 6. Instructional Planning - How well prepared were you to "Use Internet resources for unit/lesson planning?"

Q. 8 Instructional (teaching/learning) Methods - How well prepared were you to "Use technology/media effectively in teaching?"

Q. 13 Communicate effectively in writing/e-Mail

2009 Set (Data will be used when available)

Q.8. Use Internet resources for unit/lesson planning

Q.9 Use technology to organize and manage student records.

Q. 10 Use technology/media effectively in teaching

Q.11 Use technology to promote cultural awareness

Q.12 Use technology to assist with grading

Rationale: The answers to the questions in the Alumni survey will provide answers to the measure. They will reflect whether our students (now practicing teachers) have the skills to use the instructional technology or not.

Measure 2: Students' Electronic Portfolio

Students are required to create an electronic portfolio upon their graduation based on the seven standards required by the Michigan Department of Education.

Rationale: We believe that narratives and artifacts by students in *Standard 7: Technology Operations and Concepts* will provide the evidence of students' knowledge of using instructional technology to enhance instruction.

Measure 3: Grades in EDU 290: Technology in Education course or its equivalent

In EDU 290 or its equivalent, students will learn to operate various technology-based software programs and hardware equipment; select and assess instructional media materials, courseware, and software; and integrate technology and media into K-12 instruction.

Rationale: We believe that due to the content of the course, the grade students earned in the course reflects the knowledge and skills they have mastered in order to use instructional technology to enhance instruction.

Question 3: Do students have disposition to use instructional technology to enhance instruction?

Comment: the committee feels this question is to find out if students have intention to use technology knowledge and skills the students have developed. The answer to this question will serve the claim directly.

Measure 1: 2008 Employer Survey

Technology - How well did CMU prepare the alumni to use appropriate instructional technology for:

- Instruction
- Communication
- Information management

Rationale: We believe these employer survey questions provide a glimpse of students' skills to use instructional technology to enhance instruction. The data from the employers carries more weight. We hope it will support our measure well.

Measure 2 MDE Exit Survey

Q 30 How well do you agree with each regarding your level of preparation to USE TECHNOLOGY TO MAXIMIZE STUDENT LEARNING:

I am well prepared to. .

3002 practice high ethical standards surrounding the use of technology.

Q 31 How much did your Teacher Preparation Institution contribute to your ability to. . .

3102 support your students' use of technology to demonstrate conceptual understanding?

Rationale: The answers to the questions in the MDE student survey will provide answers to the measure.

Measure 3 2008 Alumni Survey

Q. 6. Instructional Planning - How well prepared were you to "Use Internet resources for unit/lesson planning?"

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Rationale: The answers to the questions in the Alumni survey will provide answers to the measure.

Measure 4: Students' Electronic Portfolio

Students are required to create an electronic portfolio upon their graduation based on the seven standards required by the Michigan Department of Education.

Rationale: We believe that narratives and artifacts by students in *Standard 7: Technology Operations and Concepts* will provide the evidence of students' knowledge of using instructional technology to enhance instruction.

6. Narrative of the Activities (Methods) to be Completed and the Timeline for the Research Project

	Data	Relevance to Claim #3	Activities and Timeline
1	MDE Exit Survey	Q1: Measure 1 Q3: Measure 2	Collect and process data - Fall 09 Writing: Spring 2010
2	Grades of EDU 290 by TEPD students	Q1: Measure 2 Q2: Measure 3	Collect and process data - Fall 09 Writing: Spring 2010
3	E-portfolio by TEPD students	Q1: Measure 3 Q2: Measure 2 Q3: Measure 3	Establish criteria for data collection Collect and process data - Fall 09 Writing: Spring 2010
4	2008 Alumni Survey	Q2: Measure 1 Q3: Measure 3	Collect and process data - Fall 09 Writing: Spring 2010
5	2008 Employer Survey	Q3: Measure 1	Collect and process data - Fall 09 Writing: Spring 2010