

Faculty Innovator Grant 2008
Center for Learning Technologies

Final Report Form

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Project Title: (10 words or less)	Learning introductory operations management with online technology and business process

Other faculty:

Faculty Name:	Department	Email Address	Office Phone Number

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1. Describe the specific teaching and learning issues being addressed by the proposal.

Operation management and business processes are a core business requirement at College of Business and Public Administration and is offered as both regular and televised classes. Operations management as a subject requires not only conceptual reasoning ability but also quantitative skills.

Many students have commented that operations management course is one of the most difficult courses in the college of business curriculum. Often, students need additional assistance both in and after class. The purpose of this project is (i) to design online/web-based teaching notes and lectures to help students review course material after class and assist students to do homework problems when they are at home, and (ii) to use business process software to demonstrate manufacturing and service processes to help students understand course material.

2. Describe the revised specific teaching and learning issues being addressed by the proposal (if applicable):

N/A

3. Describe the development activities involved addressing the learning or teaching issue.

The development activities approach to the proposed solution includes developing business process teaching material, developing digitized step-by-step problem solving procedure to help students do homework problems, and developing online self-testing short quizzes to emphasize core concepts of each chapter.

4. Describe the learning outcomes attained by the project.

Student's performance in quantitative problems has significantly improved.

5. Describe unexpected outcomes, if any.

The course, OPMT 303T, was in the technology cluster in 2008. OPMT 303 is no longer a course in the technology cluster since 2011.

6. Describe the impact of the completed project on your colleagues, department, college, or community.

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My colleagues are very interested in my technology supported delivery method. A couple of professors observed my digitized step-by-step problem solving procedure and are considering developing a statistical course in the same manner.

7. Describe how the project can be a model, template, or prototype for use by other instructors.

Part of the course delivery method, digitized step-by-step problem solving procedure, serves as a model for a web-based course "International Shipping and Supply Chain Management." We analyzed student's response on the digitized step-by-step problem solving procedure, made appropriate adjustment for the newly created web-based course. Additionally, we have adapted methods for online quizzes to online testing.

8. Describe the technology used to help address the issues described in the proposal.

Lectures on process flow and analysis, process design, process quality control, operations planning, capacity requirements, inventory management and scheduling have been digitized and posted on the blackboard for students to study after class. Homework problems are demonstrated step-by-step. Students are able to review course material after class and have accessible help to do homework problems when they are at home.

9. Describe products, if any, that are a result of the project.

The impact of the project includes serving as an example for other courses that are quantitative-method intensive, used as a base line for teaching business core class in a regular classroom setting as well as televised environment, and used as example to improve student learning of core business courses.

10. Describe the future plans for this project, if any.

N/A

11. Attach a financial report with updated Budget Plan Matrix.

Final Budget Matrix

Budget Item (equipment, personnel, software, etc.)	Qty	Total Cost	Source of Funds	
			Amount from FIG	Amount from Other Source
Equipment (a Tablet PC that can take inputs from writing; notes written in class can be saved and posted online;	1	\$1,200- 1,500		

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step-by-step problem solving can be written, saved and posted on the blackboard)				
Conference (registration, airfare, hotel, etc.)	1	\$1,000		
Material supply (CD, tapes, printing, printer cartridges, etc.)		\$300		
Total		\$ 2,800		