

Research, Creative Activity and Teaching: Overlapping, Synergistic and Effective in Preparing 21st Century Business Professionals

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Agenda

- Background
- Teaching and Research Philosophy
- The Model
- Research Innovation
- Instructional Innovation
- Outcomes

Background

- Underlying Education and Industry experiences drove Teaching and Research Philosophy
 - Undergraduate work in Mechanical Engineering
 - MS and Ph. D. (emphasis: MIS) at Clemson University
 - Worked for several years in IT industry

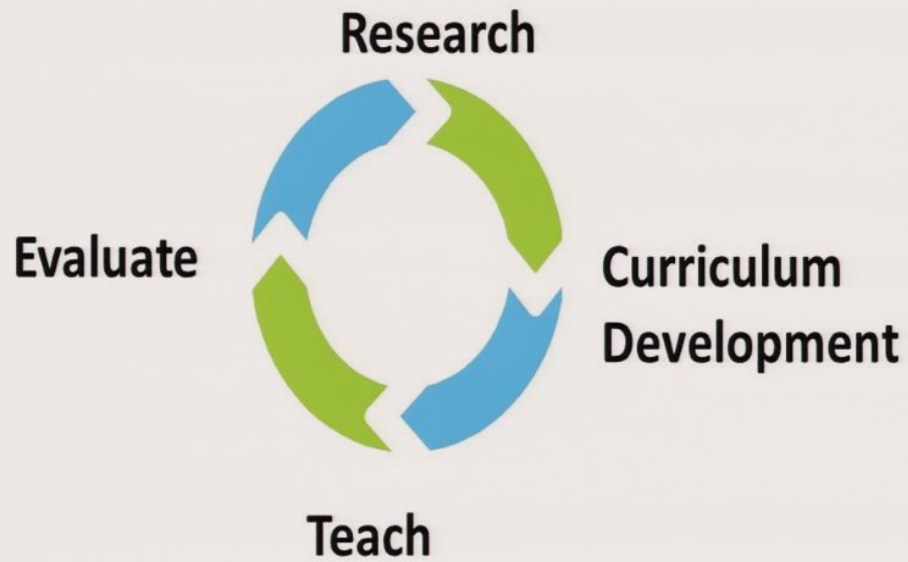
Teaching and Research Philosophy

- Challenging AND Encouraging
- Mentor scholars and business professionals
- Focus on 21st Century Preparation
- Continuous Improvement – Use the synergistic, iterative model

“The current and future health of America’s 21st Century Economy depends directly on how broadly and deeply Americans reach a new level of literacy—‘21st Century Literacy’—that includes strong academic skills, thinking, reasoning, teamwork skills, and proficiency in using technology.”

-21st Century Workforce Commission National Alliance of Business

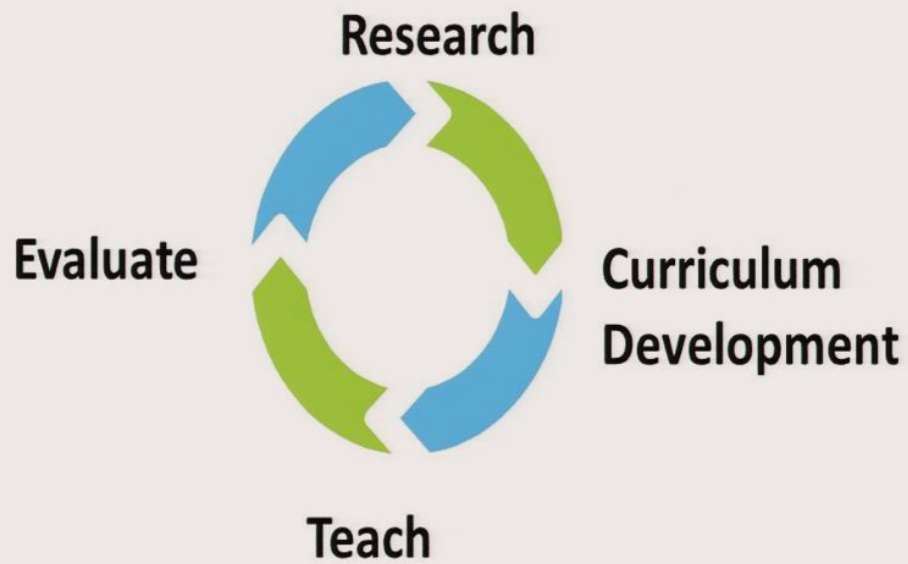
Synergistic And Iterative Model



Research Innovation

- Research to inform teaching and vice versa – the iterative process
- Subject area research
 - Requirements Engineering, UML, Extreme Programming, Virtual Teams
- Research on teaching technical material
 - CSE, Classroom Culture, Online vs. F2F, Expertise Development
- 21st Century Skills
 - STEM, Virtual Teams - Communication, Critical Thinking, Computer and Cultural Literacy

Synergistic And Iterative Model



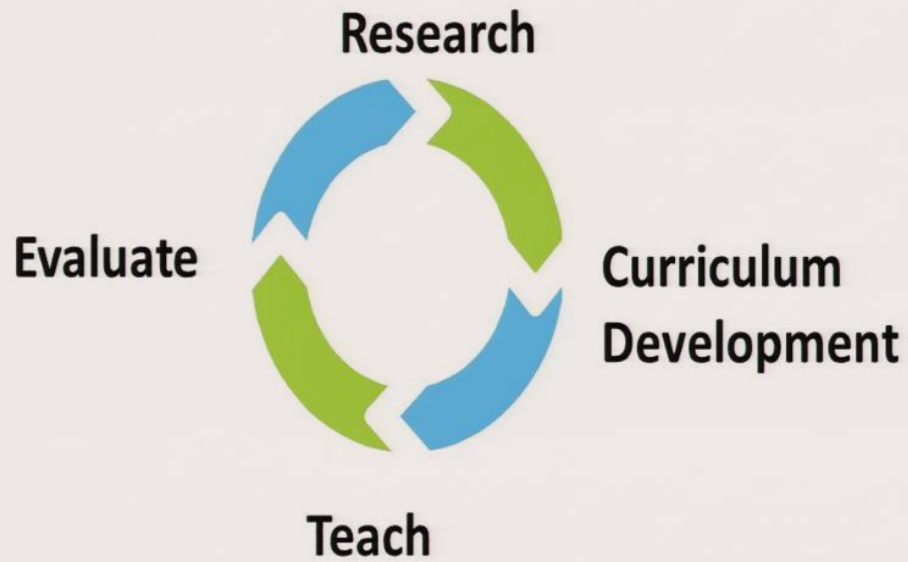
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Instructional Innovation

- Objective: How to best prepare our students to succeed in the 21st Century?
- Method: Use Research to inform curriculum development and instruction
 - Consult with Employers, Consider other top-notch MIS Programs, research findings, etc.
 - Teach cutting-edge concepts, techniques, models, methods, technologies based on research findings
- Result: Cutting-edge Curriculum based on 21st Century skills and real-world projects
- Outcomes – Very encouraging!

Partial List of IS Projects Developed by students for community

Some of these projects represent between 500 – 800 student hours not including my hours guiding and supervising them.

Pitt County Government - Greenville, NC
Walter B. Jones Alcohol and Drug Abuse Treatment Center
Plantation Golf Club - Reidsville, NC
ECU Football Recruiting Information System - Greenville, NC
Pitt County Humane Society - Greenville, NC
KS Bank - Training Information System - Wilson, NC
Mini Soccer League - Greenville NC
Communities in Schools – Greenville, NC
Grant Application Processing – Pitt County Government
Sportsman's Inn - Plymouth NC
Boys and Girls Club – Greenville NC
The Friends of the Pitt County Animal Shelter – Greenville, NC
Dance Studio B - Wilson NC
ECU COB – Proctoring System
Rock Springs Center – Greenville
Law Offices of Frank Cassiano – Greenville
The Hammock Source – Greenville
Commerce Club Member System - COB
Ayden Rec. Center – Ayden
Building Hope Community Center – Greenville
Give 2 Troops - Greenville

Outcomes

- Improved Student Learning and Engagement? Yes
- Energized Research and Instructional Agendas? Yes
- Increased service to community? Yes
- Improved Student Placements in 21st Century Businesses - Yes!
- A WIN – WIN – WIN situation!



