

## Transforming the Core Course in the College of Technology



COURSE CODE: Tech 12000

**COURSE TITLE: Design Thinking in Technology** 

**INSTRUCTORS: Nathan Mentzer, Dawn Laux** 

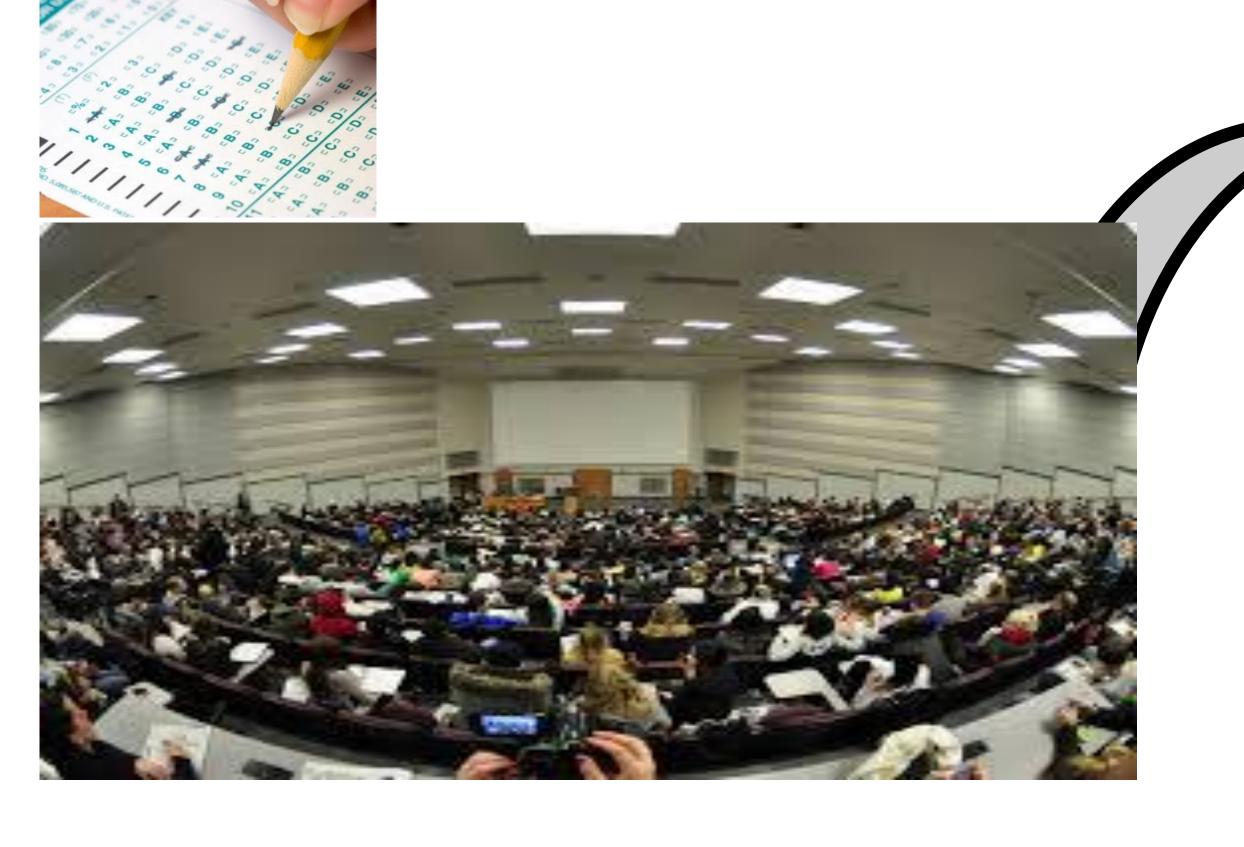
& Pat Connolly

## **COURSE OBJECTIVES:**

- 1. Students will be able to write a narrowly focused problem statement
- 2. Students will be able to apply ethnographic methods to understand technological problems
- 3. Students will be able to develop a search strategy, access technical databases and evaluate results and source quality
- 4. Students will be able to create a technical report documenting results of the design process
- 5. Students will be able to manage design projects, develop project timelines, and negotiate individual responsibilities and accountability in the team environment
- 6. Students will be able to apply strategies of ideation to develop novel and innovative solutions
- 7. Students will be able to rapidly prototype solutions for purposes of design, testing and communication

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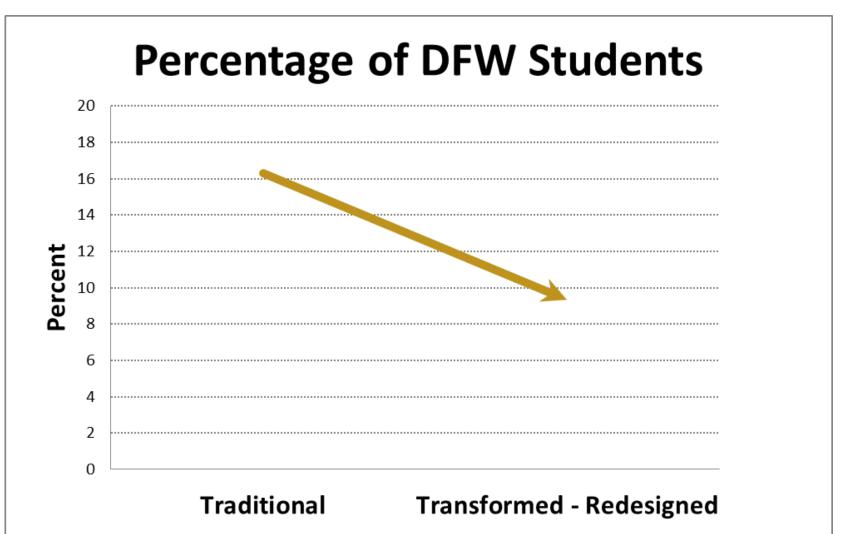
- Factors that increase student motivation?
- Methods of improving team function?
- Pedagogical approaches to Design Thinking?
- Improving a sense of community?
- Ways of empowering students?
- Improving student achievement?



Tech 12000 Redesign









**Course Evaluation Traditiona** 

**Transformed - Redesigned** 

n=579 students