

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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Research Questions:

- 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?

