

HANDS-ON, MINDS-ON INSTRUCTIONAL PRACTICES

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Using the Engineering Design Process and Hands-On Projects to Teach Teamwork and Resilience

The Campbell University School of Engineering uses hands-on projects to provide students the opportunity to learn and apply the Engineering Design Process in teams, preparing them for cross-disciplinary projects in their future jobs. Additionally, the Engineering Design Process is a framework for overcoming failure, giving students the opportunity to develop a resilience mindset. Participants in this presentation will complete a mini-project in teams to experience firsthand how specific team roles can build team unity and help teammates overcome challenges together. Participants also will brainstorm with their teammates on how to include the design process in their own classrooms.

Presentation Target:

High School

Presenter(s):

1. Heather Jones, Director of Student Success, School of Engineering, Campbell University
2. Kasidy Harper, School of Engineering, Campbell University