



Transdisciplinary Educational approaches to advance Kentucky (TEK)



Providing opportunities for students to obtain essential workforce skills through real-world learning and active engagement in transdisciplinary environments.



LEARNING

*Students will be introduced to transdisciplinary work through a first year experience before having the option to enroll in two new transdisciplinary courses, **Discover** and **Engage**, that will provide opportunities for learning essential workforce skills.*



LEVERAGING

*TEK Faculty Fellows will be selected each academic year to teach **Discover** and **Engage** courses. They will participate in professional development activities in transdisciplinary educational approaches to better equip them to expand the use of transdisciplinary skills in undergraduate classes.*



LINKING

*Students will have the opportunity to connect with community partners and align their transdisciplinary skills with Kentucky workforce needs. Students who successfully complete **Discover** and **Engage** will earn a Badge to demonstrate to employers their achievements in understanding multiple points of view, reflection, communication, and collaboration.*



TEK Initiatives

Student Learning Outcomes

- Identify Multiple Viewpoints
- Communicate Ideas
- Reflect on Process and Growth
- Collaborate in Teams

First Year Experience

Students will participate in a re-designed first-year experience that includes transdisciplinary modules with embedded quizzes, for assessment. As students transition into university life, they will be exposed to the concept of transdisciplinary team approaches to problem solving and will be introduced to transdisciplinary opportunities they can have across their college experience.

A TEK Faculty Fellows program will be created to incentivize and support the development of innovative courses, creation of opportunities for students to engage in meaningful work solving problems that are important to the community and refining of faculty expertise around transdisciplinary teaching and learning.

The **Discover** and **Engage** courses will utilize multidisciplinary teams of academic and workforce experts who are actively working together to create and use knowledge to address critical problems in our community and world.

TEK Courses: Discover and Engage

Students will be exposed to transdisciplinary and workforce experts, from within UK as well as community partners, who will help them translate and recognize how many perspectives are used by multiple disciplines to solve problems and develop solution. In collaboration with community and campus partners, students will work as members of a team that generates and communicates knowledge through tangible products that address real-world and workforce problems.

TEK Skills

Faculty will have the opportunity to integrate at least one of the targeted transdisciplinary skills, as reflected in the TEK student learning outcomes, into existing courses. Students will be learning the skills needed for transdisciplinary work across their disciplinary programs.