Curriculum Units by Fellows of the Yale-New Haven Teachers Institute
2019 Volume III: Human Centered Design of Biotechnology

The American Disabilities Act, Tourism and Hospitality with Applied Biotechnological Design

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The subject matter in this unit will explore The American Disabilities Act, its impact on tourism, hospitality with empathetically designed applied biotechnological models. The primary objective of this unit is to get students to apply their foundational knowledge of allied health professions to a specified disability.

The curriculum unit was designed and formatted with the intention to give the student a basic understanding of disabilities and to design a rapid prototype with empathy.

Students will apply their scientific knowledge to the real-world and overarching question: "How do disabled people navigate activities of daily living and the world of travel with ease?" This curriculum unit will employ Design Thinking methodology towards the development of novel medical devices that can make daily life activities and traveling safer, convenient and more enjoyable.

The teaching strategies are varied, forward thinking, and promote brainstorming sessions as a means of student engagement. Strategies used will encourage students to think independently and work collaboratively. The curriculum unit framework includes a series of steps, including a complete understanding of the American Disabilities Act, an Everfi-Endeavor STEM careers exploration course that offers a tailored approach to introduce topics relating to Science, Technology, Engineering, Math and Medical Careers, and concludes with a service learning project.

(Developed for Health Career Pathways I, grades 11-12; recommended for Health Sciences, grades 11-12)