I436: Technology Innovation (3 credit hours)

This course will teach students the process of innovation, specifically in respect to technological innovation. Students will be required to ideate technological concepts given a set of constraints and an opportunity space. The focus of the course will be for students to invent and implement without considering the commercial potential of their innovations. Concepts covered will include abductive reasoning, problem framing, pattern recognition, and trend analysis. Students will be required to rapidly prototype their concepts in order to present their innovations in class. The class will culminate in an innovation competition, which will entail students completing an innovation challenge and presenting their solutions to a panel of judges who will evaluate their technologies based on the depth of innovative thinking demonstrated.