HUMAN-CENTERED DESIGN AND DEVELOPMENT, B.S. (CAPITAL)

Begin Campus: Any Penn State Campus

End Campus: Harrisburg

Program Learning Objectives

- **Understanding Humans**: Understanding how humans' physical and cognitive capabilities inform interaction and experience design.
- **Understanding Context**: Understanding the context and technology requirements of users and other stakeholders, and articulating how design and evaluation concerns are affected by their context.
- **Modeling Human Activity**: Developing models of human activity with and without technology support.
- **Prototyping**: Envisioning, designing, and evaluating new technology prototypes using appropriate interaction modalities, styles and techniques.
- **Developing Production and Technologies**: Developing working, production technologies to address identified design opportunities.
- **Evaluating**: Applying and developing skills in a mix of qualitative and quantitative methods to collect and analyze formative and summative usability data.
- **Managing HCDD Projects**: Selecting, organizing and implementing design and development activities involving users and other stakeholders.
- **Communicating**: Communicating with colleagues, users, and other stakeholders about complex ideas describing actual and envisioned technology in use.
- **Enacting Ethics**: Understanding the importance of professional ethics and enacting these in human-centered design and development practice.