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.