

# Human-Computer Interaction Design and Programming

**CSCI-C 297, INFO-I 300**

**Instructor:** Wolfer, James (jwolfer@iusb.edu)

**Prereq:** CSCI-C 201 or INFO-I 211

**When:** Tuesday & Thursday, 10-11:15a

## Course Description:

Human Computer Interaction (HCI) explores the design and use of computer tech, focused on the hardware and software interfaces between users and computers. The course will delve into interface requirements, design principles, results assessment, catering to diverse human needs, including the needs of individuals with disabilities. The course will be mindful that computers are unlike limited use tools, they have many capabilities and this takes place in an open-ended dialog between the user and the computer using Computer Science, Human Factors Engineering and Cognitive Science.

## Selective Topics:

- Brain-Computer Interaction ✓
- Augmented and Virtual Reality ✓
- Embedded Computation ✓
- Empirical Measurement ✓
- Ubiquitous Computing ✓
- User-Centered Design ✓
- Social Computing ✓
- Iterative design ✓
- Activity Theory ✓
- UX Design ✓



Virtual Reality Glasses



Leap Motion Control



Projective Laser Keyboard