

Master of Science in

Human Factors in Information Design

MS

At Bentley University, we believe that a human-centered process improves all that we design and create. In our MSHFID program, you'll gain a deep understanding of human behavior through research that informs today's product design, and a keen appreciation for the strategic role of UX in building competitive advantage for your organization.

You'll tackle real research and design problems sponsored by leading tech companies, sharpening your skills and building your portfolio. And, by mastering emerging technologies such as VR/AR, voice interaction, IoT, wearables, behavioral design and AI, you'll set yourself up with a strong and diverse portfolio of skills and a career that's future proof.

Program Features

- Learn about human behavior relative to product design, universal accessibility, minimal design, usability and the user experience.
- Master UX research methods, including ethnography, field research, interviews, internationalization, quantitative methodologies, survey design, and formative and summative usability testing.
- Become adept at moving quickly from research and data to innovative design solutions.
- Gain a firm grounding in business strategy that embraces the critical role of user experience in adding value for organizations of every kind.
- Study here at Bentley, online from a home or office, at our San Francisco satellite campus, or a combination of the three.
- Build world-ready design through product and application internationalization strategies.
- Embrace ethical design practices.

Experiential Learning

The Bentley MS HFID program gives students access to three state-of-the-art learning centers and facilities.

The User Experience Center (UXC) is the hands-on research centerpiece of the MS HFID program. Its full-time staff of UX professionals provide consulting services to corporate and non-profit clients around the globe.

Dr. Ziat's Haptics Lab explores human-computer interaction (HCI) with natural and artificial environments, incorporating the fields of engineering, cognitive psychology and neuroscience.

Dr. Ericson's Virtual & Augmented Reality Lab uses immersive technologies to solve complex design challenges in healthcare, sustainability, education, and architecture.

Career Outcomes

Our program emphasizes the strategic role of UX in enhancing an organization's competitive advantage, and our graduates routinely land senior-level positions at top companies across the country and around the world. Some job titles of our graduates are: UX researcher, Interaction designer, UX designer and Human Factors engineer.



Bentley approaches design-learning differently and showed me I'm capable of more than I ever thought possible.

Ryan

Senior UX Designer
Tesla

Curriculum

Admission to MSHFID program requires a Bachelor of Science in anthropology and neuroscience or engineering; a Bachelor of Arts in new media, design or psychology; or permission from the program director. Candidates should have relevant experience in design, software, mobile or hardware development; industrial design; information architecture; interaction design; front-end development; product management; social media or usability testing. Three years of experience is recommended.

Core (3 courses)

- HF 700** Foundations in Human Factors

- HF 710** Managing a User-Centered Design Team
- or
- HF 725** UX Leadership and Management

- HF 715** Innovation Bootcamp *(required of California online students only)*

- HF 750** Testing and Assessment Programs

Human Factors Electives (5 courses)

Select five courses from the following:

- HF 720** Localization and the Global Market

- HF 730** Visualizing Information

- HF 740** Information Architecture: User-Centered Design for the World Wide Web

- HF 751** Measuring the User Experience

- HF 760** Intelligent User Interfaces

- HF 761** Mobile Design

- HF 765** Emerging Interfaces

- HF 766** Multi-Modal Interface Design

- HF 770** Prototyping and Interaction Design

- HF 780** Field Methods in Human Computer Interaction

- HF 785** Ethnography for Experience Design

- HF 790** Internship in HFID

- HF 795** Research Methods in Human Factors

- HF 800** User Experience Thesis

Non-Human Factors Electives (2 courses)

Select two courses from an approved business area such as:

- CS 602** Data-Driven Development with Python

- CS 603** Algorithmic Thinking with Java

- CS 607** Cybersecurity

- GBE 790** Global Business Experience

- IPM 652** Managing with Analytics

- MG 632** Leading Effective Work Teams

- MG 646** Leading Technology-Based Organizations

- MG 652** Strategic Innovation

- ST 625** Quantitative Analysis for Business

For complete degree requirements and most up-to-date course options, visit bentley.edu/graduate.

bentley.edu/graduate/hfid

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