

# MASTER OF SCIENCE IN HUMAN FACTORS IN INFORMATION DESIGN

Bentley's Human Factors in Information Design (HFID) graduate program is an accelerator for successful careers in user experience (UX) research and design, customer experience (CX), and product management.

Students master the world of experience design by exploring the digital, physical, virtual and augmented reality, multi-modal, generative AI, and haptic realms. To achieve this, students build a deep understanding of the human mind and behavior. This knowledge is then considered and applied to the experience design process: problem exploration, conceiving, narrowing solutions, low-and high-fidelity prototyping, visual design, content strategy, and interactive design. Interwoven throughout is a human-centered approach where students master ethnography, observational work, interviews, and formative and summative usability testing as necessary inputs to creating experiences.

Upon program completion, students gain the skills to both contribute to and lead the creation of ethical, inclusive, world-ready products and experiences that deliver business and societal impact. Graduates with human-centered design skills are sought after by top organizations across a variety of industries, from cutting-edge tech startups, to consumer and medical industries, to the Fortune 500.

## Curriculum

Course	Title	Credits
<b>Requirements (9 credits)</b>		
HF 700	Foundations in Human Factors	3
HF 710	Managing the Experience Design Process <sup>1</sup>	3
or HF 725	User Experience Leadership and Management	
HF 750	Testing and Assessment Programs	3
<b>HF Elective Courses (15 credits)</b>		
HF 720	Internationalization and World-Ready Product Design	
HF 730	Visualizing Information	
HF 735	Design Ethics	
HF 740	Information Architecture: User-Centered Design for the World Wide Web	
HF 751	Measuring the User Experience	
HF 755	Special Topics in Human-Computer Interaction (HCI)	
HF 760	Intelligent User Interfaces	
HF 766	Multimodal Experience Design	
HF 770	Prototyping and Interaction Design	
HF 775	Design Innovation	
HF 780	Qualitative Research: Theory to Practice	
HF 785	Ethnography for Experience Design	
HF 790	Internship in Human Factors in Information Design	
HF 795	Research Methods for Human Factors	
HF 800	User Experience Thesis	

### Non-HF Elective Courses (6 credits)

CS 602	Data-Driven Development with Python
CS 603	Algorithmic Thinking with Java
CS 607	Cybersecurity
CS 655	Managing with Analytics
CS 703	Looking into the Future: Automation and Digital Technologies
GBE 790	Global Business Experience
GR 602	Business Process Management
GR 603	Leading Responsibly
IDCC 711	
MG 632	Leading Effective Work Teams
MG 635	Negotiating
MG 645	Leading Change
MG 646	Leading Technology-Based Organizations
MG 651	Project Management
MG 652	Strategic Innovation
MK 758	Enhancing Creativity
ST 625	Quantitative Analysis for Business
ST 635	Intermediate Statistical Modeling for Business

<sup>1</sup> A student is permitted to take both HF 710 Managing the Experience Design Process and HF 725 User Experience Leadership and Management and count one as an elective.

Please note: All coursework must be completed within five years.

Please note: Successful completion of Bentley's UX continuing education certificate program with a grade of B or higher prior to the start of the Master of Science in Human Factors in Information Design program will be honored as 6 elective credits to the Master of Science in Human Factors in Information Design program.