Who Should Attend

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- Human factors specialist
- Human factors engineer
- Human factors psychologist
- Engineering psychologist
- Usability engineer
- User experience engineer
- Usability analyst
- Ergonomist
- Ergonomics engineer
- Safety engineer
- Forensic expert
- Training needs analyst
- Systems/integration engineer
- Occupational therapist

What People are Saying About U-M Human Factors

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“The mix of workshops and seminars kept the material fresh and interesting.”

Learn more and register for upcoming courses at: isd.engin.umich.edu/HumanFactors
Small Group, Hands-on Design Experience

Learn from People Who Wrote the Book
Work with 13 experts who literally wrote the premier books on Human Factors thinking. But far from just theory, they will give you concepts you can put to work right away.

Get an Insider’s View of Human Factors
You will experience the major topics for design, evaluation, and research that continue to be important, along with current recommendations for common design problems.

Benefit from Small Group, Hands-on Experience
Learn how to measure human anthropometry, estimate task completion times, and use methods from human-computer interaction such as thinking aloud and heuristic evaluation, and that is just the beginning!

Select Special Topics of Interest to You
Choose from 14 seminars and workshops. Example topics include: Cognitive task analysis, occupational ergonomic methods, usability testing, root cause analysis, cognitive walkthroughs, and more.
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**Program Components**

- Crash test laboratory at the University of Michigan Transportation Research Institute.

**Program Leader**

**Paul Green, Ph.D.**
Research Professor, University of Michigan Transportation Research Institute and Adjunct Professor/Research Professor, Department of Industrial and Operations Engineering. Email pagreen@umich.edu, phone +1 (734) 763-3795.

**Instructors**

**Deborah Boehm-Davis, Ph.D.**
Professor of Psychology and Dean of the College of Humanities and Social Sciences, George Mason University

**Bruce Bradtmiller, Ph.D.**
Owner and President, Anthrotech

**Neil Charness, Ph.D.**
Professor of Psychology, Florida State University

**Richard Jagacinski, Ph.D.**
Professor of Psychology, Ohio State University

**Debra Jones**
Principal Research Associate, SA Technologies

**Clayton Lewis, Ph.D.**
Professor of Computer Science, University of Colorado

**Mark Newman, Ph.D.**
Assistant Professor, School of Information, University of Michigan

**Nadine Sarter, Ph.D.**
Professor of Industrial and Operations Engineering, University of Michigan

**F. Jacob Seagull, Ph.D.**
Associate Professor of Medicine, University of Michigan

**Douglas Wiegmann, Ph.D.**
Associate Professor of Industrial and Systems Engineering, University of Wisconsin

**Kentaro Toyama, Ph.D.**
W.K. Kellogg Associate Professor of Community Information, University of Michigan

**Register Today!**

Visit our Human Factors program web page at isd.engin.umich.edu/HumanFactors, send an email to isd-answers@umich.edu or call (734) 647-7200 to enroll.

**2018 Program Dates**

Register for Week 1, Week 2, or Both!

- Week 1: July 23-28
- Week 2: July 30-August 3

Ann Arbor, Michigan
Program Components

Week one of this intensive course is a broad survey of human factors topics important to designers and researchers.

- Introduction to human factors
- Advanced displays
- Anthropometry
- Cognitive task analysis
- Human error
- Human-system integration
- Human vision
- Manual task analysis
- Motor skills and manual controls
- Occupational biomechanics (two lectures)
- Perception, memory and cognition
- Situation awareness
- Visual displays
- Workload

Week two presents an overview of major topics and issues in human-computer interaction together with mini-workshops and seminars on selected principles, methods, and procedures providing the foundation for effective human-computer systems and web application design.

- Trends in human-computer interaction
- Automation
- Cognitive task analysis
- Collaborative and social computing
- Cost-benefit analysis
- Environmental Ergonomics
- GOMS task analysis
- How to apply human factors material
- Inclusive design
- Screen and widget design
- Software human factors
- Speech interfaces
- Usability testing
- User interface evaluation methods
- Web interface design

For further detailed course information, visit isd.engin.umich.edu/HumanFactors.

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View photos of class sessions, group work, tours and more. Visit http://goo.gl/xmVMlf to view galleries from the past several years.

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- Mobile Products
- Consumer Products
- Medical Devices
- Websites

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Improving Human Factors Engineering for 59 Years
Anywhere there is a person using a system, product or service...
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- Vehicles
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- Office Applications
- Mobile Products
- Consumer Products
- Medical Devices
- Websites

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...there is a need for human factors engineering.
DESIGNING SYSTEMS, PRODUCTS AND SERVICES TO MAKE THEM EASIER, SAFER, AND MORE EFFECTIVE FOR HUMAN USE

The University of Michigan’s College of Engineering was founded in 1853. Today, Michigan Engineering and its academic departments rank in the top ten in their respective areas (U.S. News and World Report). The faculty’s ongoing research and industry consultation in engineering contribute to Michigan’s strength and impact on professional development. Michigan Engineering spends over $250 million on research annually, placing it in the forefront of collegiate engineering research in the U.S.

Integrative Systems + Design (ISD), a division of Michigan Engineering, offers credit courses to students on campus and at locations around the world. Recognized as a global leader in online education in addition to offering on campus programs, ISD provides lifelong learning to technical professionals, and has served more than 100,000 with intensive short courses, conferences, professional certifications, and online advanced degree and certification programs.

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