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About Michigan Engineering and Integrative Systems + Design

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’s research expenditures for fiscal 2014 totaled $217.9 million, placing it in the forefront of collegiate engineering research in the U.S.

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ISD responds to the needs of industry, healthcare, government, the military, and non-profit organizations with specialized education programs.

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Who is giving the course?

Michael J. Bernstein, Grand Blanc
Mark J. Beamer, Grand Blanc
Michelle N. Beemer, Ann Arbor
Laurence B. Boch, Bloomfield Hills
William P. Boyle, Bloomfield Hills
Dennis Briston, Birmingham Farms
Andrew Fischer Honea, Ann Arbor
Andrew C. Richner, Grosse Pointe Park
Katherine E. White, Ann Arbor
Denise Ilitch, Bingham Farms
Shauna Ryder Diggs, Grosse Pointe
Laurence B. Deitch, Bloomfield Hills
Mark S. Schlissel
Michael J. Behm, Grand Blanc
Andrew C. Richner, Grosse Pointe Park
Andrea Fischer Newman, Ann Arbor
Denise Ilitch, Bingham Farms
Shanna Ryder Diggs, Grosse Pointe
Kathryn B. White, Ann Arbor
Mark S. Schlissel (ex officio)

Where is the program held?

The Regents of the University of Michigan.

When does the course take place?

The course takes place for five weeks, and is usually held during the summer months.

Who should attend?

The course is designed for professionals who work in the field of human factors engineering, as well as those who wish to gain a better understanding of the field. The course is open to individuals from a variety of industries, including but not limited to: engineering, psychology, healthcare, and government.

What is the course about?

The course covers a wide range of topics related to human factors engineering, including human-computer interaction, ergonomics, usability, and safety. Participants will learn about the principles and practices of human factors engineering, as well as how to apply these principles to real-world problems.

What is the cost of the course?

The cost of the course is $2,500, which includes tuition, materials, and access to online resources.

Is the course accredited?

Yes, the course is accredited by the Accreditation Board for Engineering and Technology (ABET).

Who should I contact if I have questions?

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- Introduction to human factors
- Advanced displays
- Anthropometry
- Cognitive task analysis
- Human error
- Human-system integration
- 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
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- GOMS task analysis
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- Screen and widget design
- Software human factors
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- Usability testing
- User interface evaluation methods
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