

# Graduate Certificate in Human Factors

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The Human Factors certificate program is designed to give a competitive edge to its graduates by equipping practitioners and researchers to critically analyze human performance capabilities, limitations, and error across a wide array of industries and applications. With rapid advances in science, technology, and applications in automation, robotics, artificial intelligence, and virtual/augmented reality, sociotechnical interfaces are becoming increasingly more complex. This trend emphasizes the need to optimize the interaction between humans and systems, to enhance safety, security, performance, usability, and satisfaction. The multidisciplinary curriculum was designed for working professionals, as is evidenced by the flexibility of the online platform and highly relevant content, applications, and assessment protocols. A total of 12 credits, four courses, are required to complete the program. The required courses support Human Factors and Ergonomics Society tenets, with a concentration on applied cognition, psychology, physiology, and ergonomics.

*Note: Certificate programs are not eligible for Title IV Federal Financial Aid unless taken as part of a degree program.*

## Human Factors Certificate

MSHF 606	Human Cognition	3
MSHF 612	Human Performance, Limitation, and Error	3
MSHF 624	Ergonomics and Biomechanics	3
MSHF 640	Human Physiology and Adaptation	3
<b>Total Credits</b>		<b>12</b>

Estimated Cost of Attendance

### Students will:

- Evaluate human cognitive/psychological capabilities and limitations comprehensively across multiple human factors and ergonomics domains.
- Comprehensively evaluate human physiological capabilities and limitations across multiple human factors and ergonomics domains.
- Apply principles of ergonomic and bioengineering as relate to human-machine design and performance.