

# M.S. in Human Factors

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The Master of Science in Human Factors (MSHF) is an online program tailored to working professionals who want to better understand the interrelationship between humans and technology, environment, and other system components, as they relate to human performance, limitations, and error in simple and complex systems. This multidisciplinary degree explores how humans interact with technology, designs, social systems, operational interfaces, and environmental factors in contexts that include healthcare, aerospace, transportation, military, security, virtual and augmented reality, simulation, computing, and other complex sociotechnical systems concerned with human performance, system design, comfort, and safety.

Students will also learn and apply critical thought and synthesis skills required to analyze current trends and past events and designs in which human error led to operational failures, as core elements of the curriculum. Our goal is for graduates to emerge from the MS in Human Factors program with the knowledge and ability to identify trends, analyze system requirements, develop strategies, recommend solutions, and recognize opportunities for innovation in this field.

Students will select one of two research options, the 30-credit program with the 3-credit Culminating Research Experience (CRE), or the 33-credit program, which incorporates the 6-credit culminating Thesis series. This Thesis option will allow the student to complete original human factors research at the end of the MSHF degree program. Along either path (CRE or Thesis), students can expect to study human physiology, cognition, psychology, and biomechanics; human performance capabilities, limitations and errors; virtual and simulated environments; and human interactions within complex sociotechnical systems.

The MS in Human Factors also has a 4+1 agreement with the Prescott BS in Human Factors Psychology program, which allows students who have earned a minimum of 75 undergraduate credits with a grade of B or better in all courses to apply to the Prescott BSHFP-WW MSHF 4+1 Combined Program. View information for the PC BSHFP-WW MSHF 4+1 Combined Program.

Estimated Cost of Attendance