

# HUMAN SYSTEMS INTEGRATION- BIOASTRONAUTICS - CERTIFICATE

---

## Overview

The graduate level certificate in Human Systems Integration - Bioastronautics will prepare professionals in engineering, human physiology, and medicine to effectively address the growing challenges of both civil and commercial human spaceflight. Participants will be exposed to classes in space operations, human factors and performance, spaceflight physiology, classical bioastronautics, quantitative risk analysis, systems design, and historical lessons learned over the last 60 years of human spaceflight. Courses are offered by synchronous and asynchronous distance learning to provide a flexible schedule for working professionals. The program is developed based on external community demand from the aerospace industry as space exploration and commercial programs continue to increase exponentially.

This program is also approved for delivery via asynchronous or synchronous distance education technology.

## Program Requirements

Code	Title	Semester Credit Hours
AERO 607	Aerospace Human Systems Integration - Bioastronautics	3
AERO 651	Human Spaceflight Operations	3
Select two of the following:		6
AERO 614	Human Performance in Aerospace Environments	
AERO 689	Special Topics in...	
ISEN 660	Risk Engineering	
ISEN 671	Human Error and Resilient System Design	
<b>Total Semester Credit Hours</b>		<b>12</b>