 Aviation Technology – Aviation Management (BS)

Assessable Outcome Rating: Initial
Assessment Planning Rating: Initial
Assessment Implementation Rating: Initial
Results Are Used Rating: Initial
Annual Feedback Rating: Initial

This degree is new, in the first year of implementation. The Aviation Program Industry Advisory Committee provided input over the past several years on the development of this new degree, new course offerings and improvements to the program that encouraged, guided and supported this successful adoption of the Aviation Management degree.

In the first semester of full implementation, there are 28 students in the sUAS (small Unmanned Aerial Systems) Emphasis and 10 in the Aviation Operations Emphasis. About 100 students are enrolled in the sUAS minor.

The learning objectives identify skills, knowledge, and attributes for program graduates, and are expanded in individual course objectives. A system to periodically (at least annually) evaluate impact of student learning will be conducted to include: assessments, evaluations, and exams for each course; IDEA surveys and reflection papers; student surveys and graduate assessments; and interviews with students.
Aviation Operations Emphasis

Learning Objectives

Disciplinary Knowledge

1. Demonstrate knowledge of the fundamental foundational areas of aviation science, to include aviation weather, human factors, and aerodynamics.
2. Summarize the impact aviation history has had on the military, social, and economic aspects of society.
3. Explain the interrelationship of safety and security to the aviation profession.
4. Demonstrate understanding in the discipline of lifelong learning including staying current on regulations, being familiar with current events, and the ability to apply learning to emerging technologies in aviation.
5. Integrate knowledge from the various aviation disciplines to effectively conduct research on aviation case studies to apply concepts learned.
6. Integrate knowledge from basic physical sciences to applications in aviation sciences.

Skills and Career Competencies

1. Explain Federal Aviation Administration certifications for aviation careers.
2. Communicate effectively in oral and written forms.
3. Use a computer for written work, presentations, and research.
4. Demonstrate proficiency in basic techniques of teamwork, leadership development, and self-management (to include health, fitness, and mental discipline) required of aviation professionals.
Unmanned Aerial Systems Emphasis

Learning Objectives

Disciplinary Knowledge

1. Demonstrate knowledge of the fundamental foundational areas of aviation science, to include aviation weather, human factors, and aerodynamics.
2. Summarize the impact aviation history has had on the military, social, and economic aspects of society.
3. Explain the interrelationship of safety and security to the aviation profession.
4. Demonstrate understanding in the discipline of lifelong learning including staying current on regulations, being familiar with current events, and the ability to apply learning to emerging technologies in aviation.
5. Integrate knowledge from the various aviation disciplines to effectively conduct research on aviation case studies to apply concepts learned.
6. Integrate knowledge from basic physical sciences to applications in aviation sciences.
8. Demonstrate proficiency in aircraft assembly, maintenance, repair, and flight operations, including proper documentation of activities.

Skills and Career Competencies

1. Explain Federal Aviation Administration certifications for aviation careers.
2. Communicate effectively in oral and written forms.
3. Use a computer for written work, presentations, and research.
4. Demonstrate proficiency in basic techniques of teamwork, leadership development, and self-management (to include health, fitness, and mental discipline) required of aviation professionals.