

# Aviation Technology – Professional Pilot (BS)

Assessable Outcome Rating: Initial

Assessment Planning Rating: Initial

Assessment Implementation Rating: Initial

Results Are Used Rating: Initial

Annual Feedback Rating: Emerging

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.

Data from the FAA evaluations are recorded and monitored every semester to ascertain meeting the objectives. Feedback from the Industry Advisory Committee has expanded and clarified our course offerings, and regular feedback is obtained from industry on our graduate success.

# Fixed Wing 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. Explain the interrelationship of safety and security to the aviation profession.
3. 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.
4. Integrate knowledge from the various aviation disciplines to effectively conduct research on aviation case studies to apply concepts learned.
5. Integrate knowledge from basic physical sciences to applications in aviation sciences.
6. Complete appropriate FAA Pilot Certifications.
7. Demonstrate proficiency in preflight inspections, postflight duties, flight briefings, and safe operation of flight.

### 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.

# Rotorcraft 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. Explain the interrelationship of safety and security to the aviation profession.
3. 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.
4. Integrate knowledge from the various aviation disciplines to effectively conduct research on aviation case studies to apply concepts learned.
5. Integrate knowledge from basic physical sciences to applications in aviation sciences.
6. Complete appropriate FAA Pilot Certifications.
7. Demonstrate proficiency in preflight inspections, postflight duties, flight briefings, and safe operation of flight.

### 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.