AABInternational

PURDUE UNIVERSITY	Purdue University
	Purdue Polytechnic Institute, School of Aviation & Transportation
	Bachelor of Science in Professional Flight Technology
	Bachelor of Science in Aviation Management
November 20, 2020	Compliance with AABI Policy 3.4.2

For each AABI-accredited program, AABI Policy 3.4.2 requires institutions to accurately publish on the program's public website, a report of student achievement data including the following information, updated annually:

- The objectives of each accredited program
- Program assessment measures employed
- Graduation rates
- Rates and types of employment of graduates

Purdue University's School of Aviation and Transportation Technology has two AABIaccredited programs:

- Bachelor of Science in Professional Flight Technology
- Bachelor of Science in Aviation Management

This document presents program objectives, assessment methods employed, graduation rates and rates and types of employment for each accredited degree program.

Mission Statements

Purdue University Mission Statement

Founded in 1869, Purdue has shared the land-grant ideal laid out under the 1862 Morrill Act of providing access to a liberal, practical education to the public. Purdue is a recognized member of the American Association of Universities (AAU), the Association of Public and Land-Grant Universities (APLU), and Universities Research Association (URA). Purdue has earned the Carnegie Foundation for the Advancement of Teaching Elective Community Engagement Classification. The Carnegie Foundation recognized Purdue for its dedication to engagement, through which the University uses its resources to improve the quality of life of Indiana citizens and people throughout the world. Purdue was recognized for engagement achievements in areas including economic development, P-12 education, community service and lifelong learning.

School and Program Mission Statements

The mission of the School of Aviation and Transportation Technology complements and strongly supports the missions of Purdue University in serving the citizens of the State of Indiana, the nation, and the world, through learning, discovery, and engagement activities. Specifically, the

School's mission statement is as follows:

• The mission of the School of Aviation and Transportation Technology is to prepare the next generation of leaders and change agents for the transportation sector.

Consistent with the mission of the School, the mission of the Professional Flight Technology program is as follows:

• The mission of the Professional Flight program is to prepare the next generation of professional pilots and leaders in flight operations.

Similarly, consistent with the mission of the School, the mission of the Aviation Management program is as follows:

• The mission of the Aviation Management program is to prepare the next generation of airline and airport executives.

Program Educational Objectives (PEOs)

Bachelor of Science in Professional Flight

The mission of the Professional Flight program is supported by the following five Program Educational Objectives:

- PEO 1 Effectively apply technical knowledge, problem-solving techniques, and hands-on skills in traditional and emerging technologies of flight operations.
- PEO 2 Be active and effective participants in on-going professional development, professional growth and increasing professional responsibility.
- PEO 3 Foster effective communication and networking with industry professionals in order to convey ideas to technical and non-technical individuals.
- PEO 4 Work effectively in teams to resolve open-ended problems.
- PEO 5 Work within the accepted standards of professionalism in a multi-cultural environment.

Bachelor of Science in Aviation Management

The mission of the Professional Flight program is supported by the following five Program Educational Objectives:

- PEO 1 -Effectively apply technical knowledge, problem-solving techniques, and handson skills in traditional and emerging areas of aviation management.
- PEO 2 -Be active and effective participants in ongoing professional development, professional growth, and increasing professional responsibility.
- PEO 3 -Effectively communicate ideas to technical and non-technical people.
- PEO 4 -Work effectively in teams.
- PEO 5 Work within the accepted standards of professionalism.

Program Assessment Measures Employed

Introduction

The School of Aviation and Transportation Technology worked with the faculty teaching in the Professional Flight and Aviation Management programs to develop the assessment plan by which the academic programs would be assessed. The need for a new assessment plan was driven by Purdue University's internal assessment needs and by feedback received from the Aviation Accreditation Board International's (AABI) site visit in October 2017. The School's academic program assessment plan utilizes the AABI student learning outcomes as the metrics against which the two AABI-accredited academic programs are to be assessed.

This assessment plan requires the School to meet at least once per year to assess the B.S. in Professional Flight Technology and B.S. in Aviation Management programs. The School faculty collects direct and indirect measures of evidence developed in program courses to show the level of student achievement in determining how well students meet the student learning outcomes.

The School's faculty met to discuss the evidence and assess the student achievement of the program's student learning outcomes on 1/18/20, 11/10/20 for Aviation Management, and 12/18/19, 4/8/20 for Professional Flight Technology. Additionally, as part of the assessment process, the School developed a "Graduating Senior Exit Survey." The need for program revisions, if any, are noted.

For all AABI student learning outcomes being assessed, the School discussed the level at which students should be considered as having "exceeded expectations." The consensus arrived at was to set a goal of 85% of the students performing at the "meets expectations" level or better. The School will determine if any programmatic changes are required to enable the remaining 15% of students to improve their performance. The School will determine what, if any, programmatic changes are necessary to increase the possibility of more students achieving at the set goal.

The direct and indirect measures developed in courses were assessed to show student achievement in the program's student learning outcomes. The artifacts collected to assess student learning outcomes were assessed on a scale of 0 to 4, with 0 equal to "does not meet expectations," 1 equal to "needs improvement," 2 equal to "meets expectations," 3 equal to "exceeds expectations," and 4 equal to "greatly exceeds expectations." This assessment report and all suggested program improvements identified by the assessment, will be provided to the School stakeholders, including students and the School's Industry Advisory Board, and the School faculty and staff.

Adequacy and Relevance of PEOs

The process for evaluating the adequacy and relevance of the current Professional Flight Program Educational Objectives utilizes data collected from:

- 1. The Purdue Center for Career Opportunity (CCO) *telephone surveys* regarding employment and salary for May PRO FLT graduates;
- 2. Input from the PRO FLT Industrial Advisory Board;
- 3. Results of *Qualtrics surveys* of PRO FLT seniors, recent PRO FLT program graduates, SATT faculty members, and known PRO FLT employers.

Similarly, the process for evaluating the adequacy and relevance of the current Aviation Management Program Educational Objectives utilizes data collected from:

- 1. The Purdue Center for Career Opportunity (CCO) *telephone surveys* regarding employment and salary for May AVIA MGMT graduates;
- 2. Input from the AVIA MGMT Industrial Advisory Board;
- 3. Results of *Qualtrics surveys* of PRO FLT seniors, recent AVIA MGMT program graduates, SATT faculty members, and known AVIA MGMT employers.

Student Learning Outcomes

There are 11 Purdue Program Outcomes and 11 AABI General Learning Outcomes. Table 1 presents the cross-mapping of these two sets of outcomes for the B.S. in Professional Flight program and Table 2 presents a similar mapping for the B.S. in Aviation Management program.). A scan of Table 1 and Table 2 reveals that all Purdue Program Outcomes as well as AABI General Outcomes are addressed through various courses across the respective curriculum. Also, all the outcomes are addressed in multiple courses. When the same outcome is addressed in multiple courses, the specific tools and techniques used to assess these outcomes vary and so do the proficiency levels.

B.S. in Professional Flight	AABI General Outcomes										
	Apply knowledge of mathematics, science and applied sciences to aviation related disciplines	Analyze and interpret data	Work effectively on multidisciplinary projects	Make professional and ethical decisions	Communicate effectively, using both written and oral communication skills	Engage in and recognize the need for lifelong learning	Assess contemporary issues	Use the techniques, skills, and modern technology necessary for professional practice	Asses the national and international aviation environment	Apply pertinent knowledge in identifying and solving problems	Apply knowledge of business sustainability to aviation business
Purdue Program Outcomes	а.	þ.	.:	d.	e.	f.	à	Ъ.	·1·	· ··	k.
A. Is an aviation professional with a thorough understanding of professional certification and career management				Х		Х	Х	Х	Х		
B. Demonstrates a broad-based knowledge of the aviation industry as an integrated transportation system							X		Х	Х	Х
C. Demonstrates an understanding of aviation safety and human factors	Х	Х						Х		Х	
D. Demonstrates and understanding of aircraft performance and design, systems, operations, and maintenance	X	Х	Х	Х		Х	Х	X	Х	X	
E. Demonstrates knowledge of safe operations within the international airport, airspace and air traffic management system			X		Х		X	X	Х	X	X
F. Demonstrates an understanding of national and international law, regulation and labor issues			Х	Х	Х	Х	Х	Х	Х		X
G. Demonstrates an understanding of meteorology and environmental issues	X	Х		Х			Х	X		X	X
H. Demonstrates the ability to think clearly and analytically		Х			Х					Х	
I. Demonstrates effective skills in communication, leadership and organization			X	Х	X			X			
J. Is prepared to compete in a number of flight-related occupational areas within the aerospace industry	X	X	X	Х	X	Х	Х	X	Х	X	X
K. May be eligible for appropriate levels of Federal Aviation Administration certification	X			Х				X	Х	X	

Table 1. Cross-mapping of Purdue program outcomes and AABI general outcomes for the B.S. in Professional Flight program

B.S. in Aviation Management		U			AABI C	General	Outcon	nes	0		
	. Apply knowledge of mathematics, science and applied sciences to aviation related disciplines	. Analyze and interpret data	. Work effectively on multidisciplinary projects	. Make professional and ethical decisions	. Communicate effectively, using both written and oral communication skills	Engage in and recognize the need for lifelong learning	Assess contemporary issues.	. Use the techniques, skills, and modern technology necessary for professional practice	Asses the national and international aviation environment	Apply pertinent knowledge in identifying and solving problems	. Apply knowledge of business sustainability to aviation business
Purdue Program Outcomes	a	q	c	р	e	f.	50	h	j.	· ·	k
A. Is an aviation professional with a thorough understanding				Х		Х	Х	Х	Х		
of professional certification and career management											
industry as an integrated transportation system							Х		Х	Х	Х
C. Demonstrates an understanding of aviation safety and human factors	Х	X						X		X	
D. Demonstrates and understanding of aircraft performance and design, systems, operations, and maintenance	X	X	X	Х		X	Х	X	Х	Х	
E. Demonstrates knowledge of safe operations within the international airport, airspace and air traffic management system			X		X		Х	X	Х	X	X
F. Demonstrates an understanding of national and international law, regulation and labor issues			X	Х	X	X	Х	X	Х		X
G. Demonstrates an understanding of meteorology and environmental issues	X	X					Х				X
H. Demonstrates the ability to think clearly and analytically		Х			Х					Х	
I. Demonstrates effective skills in communication, leadership and organization			X	Х	X			X			
J. Is prepared to compete in a number of management- related occupational areas within the aerospace industry	X	X	X	Х	X	X	Х	X	Х	X	X
K. May be eligible for appropriate levels of Federal Aviation Administration certification	X			Х				X	Х	X	

Table	2.	Cross-mapping	of Purdue	program c	outcomes and	d AABI	general out	comes for	the B.S.	. in /	Aviation	Management	progr	ram
		cross mapping												

AABI Student							
Learning Outcome	Evaluation Method	Feedback Loop					
A. Apply mathematics, science, and applied sciences to aviation related disciplines	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 32500 Aviation Meteorology AT 32700 Adv. Transport Flt. Ops Direct Measures: The student learning outcome will be assessed using data from: 1. Multiple-choice final exam scores related to the application of mathematics, science, and applied sciences to aviation related disciplines for each student will be 	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of applying mathematics, science, and applied science to aviation disciplines. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate					
	 obtained from the AT 32500 course. 2. Multiple-choice midterm exam scores related to the application of mathematics, science, and applied sciences to aviation related disciplines for each student will be obtained from the AT 32700 course Indirect Measures: End-of course student surveys. 	implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.					
B. Analyze and interpret data	Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 32500 Aviation Meteorology AT 32700 Adv. Transport Flt. Ops Direct Measures :	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of analyzing and interpreting data.					
	The student learning outcome will be assessed using data from:	Recommendations for curriculum					
	 Multiple-choice final exam scores related to analysis and interpretation of data for each student will be obtained from the AT 32500 course. 	pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation.					
	 Multiple-choice final midterm scores related to analysis and interpretation of data for each student will be obtained from the AT 32700 course. Indirect Measures: 	Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.					
	1. End-of course student surveys.						

Outcomes, evaluation methods and feedback loop for the B.S. in Professional Flight program

Learning OutcomeEvaluation MethodFeedback LoopC. WorkThe following courses will be used to assess if the undergraduate programs fulfill this student learning outcome:The assessment results will be analyzed once per year by the department faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable working
C. Work effectively on multi- disciplinary and diverse teamsThe following courses will be used to assess if the undergraduate programs fulfill this student learning outcome:The assessment results will be analyzed once per year by the department faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable working
Direct Measures:effectively on multi-disciplinary and diverse teams.The student learning outcome will be assessed using data from:effectively on multi-disciplinary and diverse teams.The student learning outcome will be assessed using data from:Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at least once per year to allow for appropriate implementation.The final results of three case studies and associated presentations (monitored by the course instructor and additional faculty members) will be obtained from the AT 22300 course.Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the department.Indirect Measures: 1. End-of course student surveys. 2. Assessment by external evaluators.Indirect Measures:
D. Make professional and ethical decisionsData from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome:The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of making professional and ethical decisions.Direct Measures: The student learning outcome will be assessed using data from:The student learning outcome will be assessed using data from:Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation.1. Multiple-choice final exam scores related from the AT 32500 course.Reviews of the impact of any such program changes will be conducted at least once per year2. Multiple-choice final exam scores related for each student will be obtained for each student will be obtained for theReviews of the impact of any such program changes will be conducted at least once per year
AT 32/00 course and the records of these reviews will be maintained by the School.
A 1 32/00 course and the records of these reviews will be maintained by the School. Indirect Measures: I End-of course student surveys

AABI Student		
Learning Outcome	Evaluation Method	Feedback Loop
E. Communicate effectively, using both written and oral communication skills	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 49401/49501 AT Capstone AT 22300 Human Factors for Flight Crews Direct Measures : The student learning outcome will be assessed using data from:	The assessment results will be analyzed once per year by the department faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of communicating effectively, using both written and oral communication skills.
	The results of a student group project and the senior capstone presentation and poster project (monitored by the course instructor and other faculty members) will be obtained from the AT 49401/49501 courses. The final results of three case studies and	Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at least once per year to allow for appropriate implementation.
	associated presentations (monitored by the course instructor and additional faculty members) will be obtained from AT 22300. Indirect Measures:	Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the
	1. End-of course student surveys.	department.
F. Engage in and recognize the need for life- long learning	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 10000 Introduction to Aviation Tech AT 14400 Private Pilot Lectures AT 24900 Instrument Pilot Lectures AT 25400 Commercial Pilot Lectures AT 47500 Aviation Law	The assessment results will be analyzed once per year by the department faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of engaging in and recognizing the need for life- long learning.
	 Direct Measures: The student learning outcome will be assessed using data from: The results of embedded questions in quizzes, tests and the final exam and of the student group presentations will be obtained from the AT 10000, AT 144000, AT 24900, and AT 25400 courses. The results of legal case studies will include discussion about the significant of lifelong learning (monitored by the course instructor and other faculty members) will be obtained from the AT 47500 course. Indirect Measures: 1 End-of course student surveys 	Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the department.

AABI Student		
Learning Outcome	Evaluation Method	Feedback Loop
G. Assess contemporary issues	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 32700 Adv. Transport Flt. Ops AT 47500 Aviation Law Direct Measures: The student learning outcome will be assessed using data from: Multiple-choice final exam scores related to assessment of contemporary issues for each student will be obtained from the AT 32700 course. Legal case studies will focus on contemporary issues in aviation. The results of legal case study reports will include analysis of contemporary issues and their significance to the future of aviation. These data will be obtained from the AT 47500 course. Indirect Measures: 	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of assessing contemporary issues. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.
	1. End-of course student surveys.	
H. Use the techniques, skills, and modern technology necessary for professional practice	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 32500 Aviation Meteorology AT 32700 Adv. Transport Flt. Ops Direct Measures: The student learning outcome will be assessed using data from: Multiple-choice final exam scores related to use of techniques, skills, and modern technology necessary for professional practice for each student will be obtained from the AT 32500 course. Multiple-choice final exam scores related to use of techniques, skills, and modern technology necessary for professional practice for each student will be obtained from the AT 32500 course. Multiple-choice final exam scores related to use of techniques, skills, and modern technology necessary for professional practice for each student will be obtained from the AT 32500 course. 	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of using the techniques, skills, and modern technology necessary for professional practice. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.
	Inuffect Measures: 1. End-of course student surveys.	

AABI Student		
Learning Outcome	Evaluation Method	Feedback Loop
I. Assess the national and international aviation environment	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 32700 Adv. Transport Flt. Ops Direct Measures: The student learning outcome will be assessed using data from: 	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of assessing the national and international aviation environment.
	 Multiple-choice final exam scores related to the assessment of national and international aviation environment for each student will be obtained from the AT 32700 course. 	Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation.
	Indirect Measures: 1. End-of course student surveys.	Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.
I Apply pertinent	Data from the following courses will be used to	The assessment results will be
J. Apply pertinent knowledge in identifying and solving problems	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 32500 Aviation Meteorology AT 32700 Adv. Transport Flt. Ops Direct Measures: The student learning outcome will be assessed using data from: 1. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 32500 course. 2. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 32500 course. 2. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 32700 course. 2. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 32700 course. 2. End-of course student surveys. 	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of applying pertinent knowledge in identifying and solving problems. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.

AABI Student		
Learning Outcome	Evaluation Method	Feedback Loop
K. Apply	The following course will be used to assess	The assessment results will be
knowledge of	if the undergraduate programs fulfill this	analyzed once per year by the
business	student learning outcome:	department faculty through the use
sustainability to	AT 20200 Assisting Operations Management	of a rubric applied to the student
aviation issues.	AT 20300 Aviation Operations Management	to determine whether the students
	Direct Measures:	are capable of applying knowledge
	The student learning outcome will be	of business sustainability to
	assessed using data from:	aviation issues.
	The final results of the airline simulation	Recommendations for curriculum
	(monitored by the course instructor and	revisions will be made by the
	additional faculty members) will be obtained	department faculty at least once per
	from the AT 20300 course.	year to allow for appropriate
		implementation.
	Indirect Measures:	
	1. End-of course student surveys.	Reviews of the impact of any
		such program changes will be
		and the records of these reviews
		will be maintained by the
		department.

B.S. in Professional Flight

Student Learning Outcome Matrix

		Student Learning Outcomes									
Undergraduate Courses B.S. in Professional Flight	Apply mathematics, science, and applied sciences to aviation related disciplines	Analyze and interpret data	Work effectively on multi- disciplinary and diverse teams	Make professional and ethical decisions	Communicate effectively, using both written and oral communication skills	Engage in and recognize the need for life-life learning	. Asses contemporary issues	 Use the techniques, skills and modern technology necessary for professional practice 	Assess the national and international aviation environment	Apply pertinent knowledge in identifying and solving problems	 Apply knowledge of business sustainability to aviation issues
AT 10000 Introduction to Aviation Technology	A	м́.	U U	A	Ц	ц V	9	H	i	J.	X
AT 10200 Aviation Business						Λ					v
AT 10300 Aerospace Vehicle Propulsion											Λ
AT 14400 Private Pilot Lectures						X					
AT 20200 Aerospace Vehicle Systems Design											
AT 20300 Aviation Operations Management											X
AT 22300 Human Factors for Flight Crews			X		X						
AT 24900 Instrument Flight Lectures						Х		Ī	1		
AT 25400 Commercial Flight Lectures						Х					
AT 32500 Advanced Aviation Meteorology	Х	Х		Х				Х		Х	
AT 32700 Advanced Transport Flight Operations	Х	X		Х			Х	Х	Х	Х	
AT 38800 Large Aircraft Systems			X				Х			Х	
AT 47500 Aviation Law						X	Х				
AT 49800 AT Capstone			Х		Х						

<u>Outcomes, evaluation methods and feedback loop for the B.S. in Aviation Management</u> <u>program</u>

AABI Student		
Learning Outcome	Evaluation Method	Feedback Loop
A. Apply mathematics, science, and applied sciences to aviation related disciplines	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 14400 Private Pilot Lectures AT 41200 Aviation Finance Direct Measures: The student learning outcome will be assessed using data from: Multiple-choice final exam scores related to the application of mathematics, science, and applied sciences to aviation related disciplines for each student will be obtained from the AT 14400 course. Multiple-choice midterm exam scores 	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of applying mathematics, science, and applied science to aviation disciplines. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any
	 related to the application of mathematics, science, and applied sciences to aviation related disciplines for each student will be obtained from the AT 41200 course Indirect Measures: End-of course student surveys. 	such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.
B. Analyze and interpret data	Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 10300 Aerospace Vehicle Propulsion AT 42100 Managerial Economics in Aviation Direct Measures : The student learning outcome will be	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of analyzing and interpreting data.
	 Multiple-choice final exam scores related to analysis and interpretation of data for each student will be obtained from the AT 10300 course. 	Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation.
	 Multiple-choice final midterm scores related to analysis and interpretation of data for each student will be obtained from the AT 42100 course. Indirect Measures: End-of course student surveys. 	Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.

AABI Student					
Learning Outcome	Evaluation Method	Feedback Loop			
C. Work effectively on multi- disciplinary and diverse teams	 The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 49800 AT Capstone Direct Measures: The student learning outcome will be assessed using data from: 1. The results of a student group project related to contemporary problems in the aviation industry will be obtained from the AT 25200 course 2. The results of a student group project and the senior design presentation and poster project (monitored by the course instructor and other faculty members) will be obtained from the AT 49800 course. Indirect Measures: 1. End-of course student surveys. 2. Assessment by external evaluators. 	The assessment results will be analyzed once per year by the department faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable working effectively on multi- disciplinary and diverse teams. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the department.			
D. M.L.	Data from the fully from a second state	771			
D. Make professional and ethical decisions	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 48100 Aviation Safety Problems Direct Measures: The student learning outcome will be assessed using data from: 1. Multiple-choice final exam scores related to professionalism and ethical decisionmaking for each student will be obtained from the AT 25200 course. 2. Multiple-choice final exam scores related to professionalism and ethical decisionmaking for each student will be obtained from the AT 25200 course. Indirect Measures: 	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of making professional and ethical decisions. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.			
	1. End-of course student surveys.				

AABI Student					
Learning Outcome	Evaluation Method	Feedback Loop			
E. Communicate effectively, using both written and oral communication skills	The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 49800 AT Capstone Direct Measures : The student learning outcome will be assessed using data from:	The assessment results will be analyzed once per year by the department faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of communicating effectively, using both written and oral communication skills.			
	 The results of a student group project and presentations (monitored by the course instructor and other faculty members) will be obtained from the AT 22300 course. The final results of the student group project, presentation, and poster (monitored by the course instructor and additional faculty members) will be obtained from AT 49800. Indirect Measures: End-of course student surveys. 	Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the department.			
E. Engago in and	The following courses will be used to	The accomment results will be			
F. Engage in and recognize the need for life- long learning	 The following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 10000 Introduction to Aviation Tech AT 14400 Private Pilot Lectures AT 47500 Aviation Law Direct Measures: The student learning outcome will be assessed using data from: The results of embedded questions in quizzes, tests and the final exam and of the student group presentations will be obtained from the AT 10000, AT 144000, and AT 25400 courses. The results of legal case studies will include discussion about the significant of lifelong learning (monitored by the course instructor and other faculty members) will be obtained from the AT 47500 course. 	The assessment results will be analyzed once per year by the department faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of engaging in and recognizing the need for life- long learning. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the department.			
	1. End-of course student surveys.				

AABI Student		
Learning Outcome	Evaluation Method	Feedback Loop
G. Assess contemporary issues	Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 41200 Aviation Finance AT 42100 Managerial Economics in Aviation AT 47500 Aviation Law	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of assessing contemporary issues
	Direct Maggures.	issues.
	 The student learning outcome will be assessed using data from: Multiple-choice final exam scores related to assessment of contemporary issues for each student will be obtained from the AT 41200 and AT 42100 courses. 	Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation.
	 Legal case studies will focus on contemporary issues in aviation. The results of legal case study reports will include analysis of contemporary issues and their significance to the future of aviation. These data will be obtained from the AT 47500 course. 	Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.
	Indirect Measures:1. End-of course student surveys.	
II Use the	Data from the following accuracy will be used to	The accomment results will be
H. Use the techniques, skills, and modern technology necessary for professional practice	Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 48100 Aviation Safety Problems AT 49800 AT Capstone	analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of using the techniques, skills, and modern technology
practice	Direct Magguros	skins, and modern technology
	Direct weasures	necessary for brotessional bractice
	The student learning outcome will be assessed using data from:	Recommendations for curriculum pedagogy and/or assessment
	 The student learning outcome will be assessed using data from: Multiple-choice final exam scores related to use of techniques, skills, and modern technology necessary for professional practice for each student will be obtained from the AT 25200 and AT 481 courses 	Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation.

AABI Student Evaluation Method Feedback Loop 1. Assess the mational and international aviation environment Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 41200 Aviation Finance The assessment results will be analyzed once per year by the School faculty through the use of a nubric applied to the student data obtained from the Course suble of assessing the national and international aviation environment for each student will be obtained from the AT 25200 and AT 41200 courses. The student learning outcome will be assessed using data from: 1. Multiple-choice final exam scores related to the assessing the undergraduate programs fulfill this student learning outcome: Recommendations for curriculum pedagogy and/or assessment results will be conducted at least once per year to allow for appropriate implementation. 1. Apply pertinent knowledge in identifying and solving problems Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: The assessment results will be analeyed once per year by the School faculty through the use of a rubric applied to the student are capable of applying pertinent knowledge in identifying and solving problems 1. Apply pertinent to the upplication of pertinent knowledge in identifying and solving problems The assessment results will be analeyed once per year by the School faculty through the use of a rubric applied to the students are capable of applying pertinent knowledge in identifying and solving problems 1. Apply pertinent to the application of pertinent knowledge in identifying and solv		Indirect Measures:	
AABI Student Learning Outcome Evaluation Method Feedback Loop 1. Assess the national and international aviation environment Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: The assessment results will be analyzed once per year by the School faculty through the use of a nbric applied to the student data obtained from the courses listed to determine whether the students are capable of assessing the national and international aviation environment. Direct Measures: The student learning outcome will be assessed using data from: Multiple-choice final exam scores related to the assessment of nationed from the AT 25200 and AT 41200 courses. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at heason core per year and the records of these reviews will be maintained by the School. J. Apply pertinent knowledge in identifying and solving problems Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: The assessment results will be mating applied to the student data obtained from the course listed to determine whether the students are capable of applying pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. The assessment results will be analyzed once per year by the School faculty at heaving the use of a solving problems for each student will be obtained from the AT 25200 course. J. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 cou		3. End-of course student surveys.	
AADD Student Evaluation Method Feedback Loop I. Assess the national adviation environment Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: The assessment results will be assessed using data from: AT 25200 Aviation Projects AT 41200 Aviation Finance The student learning outcome will be assessed using data from: The student learning outcome will be assessed using data from: I. Multiple-choice final exam scores related to the assessment of national and international aviation environment for each student will be obtained from the AT 25200 and AT 41200 courses. Recommendations for curriculum pedagogy and/or assessment revisions will be maintained by the School faculty at Least once per year to allow for appropriate implementation. J. Apply pertinent knowledge in identifying and solving problems Data from the following courses will be used to assess if the undergraduate programs fulfill this identifying and solving problems The assessment results will be assessed using data from: J. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student learning outcome: will be assessed using data from: The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether be student are capable of applying pertinent knowledge in identifying and solving problems. J. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for	A A DI Student		
 Assess the national and international aviation environment Assess the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 41200 Aviation Finance Direct Measures: Multiple-choice final exam scores related to the assessment or avironment for each student will be obtained from the AT 25200 and AT 41200 courses. Multiple-choice final exam scores related to the assessing the undergraduate programs fulfill this student learning outcomes. Multiple-choice final exam scores related to the assessing the undergraduate programs fulfill this student learning outcomes. Multiple-choice final exam scores related to the case student will be obtained from the AT 25200 and AT 41200 courses. Apply pertinent knowledge in identifying and solving problems Apply pertinent identifying and solving and solving problems. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. Multiple-choice final exam scores related to the appl	Learning Outcome	Evaluation Method	Feedback Loop
Indirect Measures: 1. End-of course student surveys.Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.J. Apply pertinent knowledge in identifying and solving problemsData from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 48100 Aviation Safety ProblemsThe assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of applying pertinent knowledge in identifying and solving problems.1. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course.Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation.2. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course.Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.2. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 78100 courseReviews of the impact of any such program changes will be conducted at least once per year and the records of these revi	I. Assess the national and international aviation environment	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 41200 Aviation Finance Direct Measures: The student learning outcome will be assessed using data from: 1. Multiple-choice final exam scores related to the assessment of national and international aviation environment for each student will be obtained from the AT 25200 and AT 41200 courses. 	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of assessing the national and international aviation environment. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation.
J. Apply pertinent knowledge in identifying and solving problems Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of applying pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the students are capable of applying pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. 2. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School. Indirect Measures: 1. Indirect Measures: 4. End-of course student surveys 4. End-of course student surveys		Indirect Measures: 1. End-of course student surveys.	Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.
 J. Apply pertnent knowledge in identifying and solving problems Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 48100 Aviation Safety Problems Direct Measures: The student learning outcome will be assessed using data from: Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 78100 course. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 78100 course. Multiple-choice student surveys 			
Indirect Measures: 4 End-of course student surveys	J. Apply pertinent knowledge in identifying and solving problems	 Data from the following courses will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 25200 Aviation Projects AT 48100 Aviation Safety Problems Direct Measures: The student learning outcome will be assessed using data from: Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 25200 course.	The assessment results will be analyzed once per year by the School faculty through the use of a rubric applied to the student data obtained from the courses listed to determine whether the students are capable of applying pertinent knowledge in identifying and solving problems. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the School faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the School.
		Indirect Measures: 4. End-of course student surveys	

AABI Student		
Learning Outcome	Evaluation Method	Feedback Loop
K. Apply knowledge of business sustainability to aviation issues.	 The following course will be used to assess if the undergraduate programs fulfill this student learning outcome: AT 10200 Aviation Business AT 20300 Aviation Operations Management AT 36200 Aviation Operations Direct Measures: The student learning outcome will be assessed using data from: 1. Multiple-choice final exam scores related to the application of pertinent knowledge in identifying and solving problems for each student will be obtained from the AT 10200 and AT 36200 courses. 2. The final results of the airline simulation project and associated class presentations (monitored by the course instructor and additional faculty members) will be obtained from the AT 20300 course. 	The assessment results will be analyzed once per year by the department faculty through the use of a rubric applied to the student data obtained from the course listed to determine whether the students are capable of applying knowledge of business sustainability to aviation issues. Recommendations for curriculum pedagogy and/or assessment revisions will be made by the department faculty at least once per year to allow for appropriate implementation. Reviews of the impact of any such program changes will be conducted at least once per year and the records of these reviews will be maintained by the department.

B.S. in Aviation Management

Student Learning Outcome Matrix

		Student Learning Outcomes									
Undergraduate Courses B.S. in Aviation Management	Apply mathematics, science, and applied sciences to aviation related disciplines	Analyze and interpret data	Work effectively on multi- disciplinary and diverse teams	Make professional and ethical decisions	Communicate effectively, using both written and oral communication skills	Engage in and recognize the need for life-life learning	Asses contemporary issues	Use the techniques, skills and modern technology necessary for professional practice	Assess the national and international aviation environment	Apply pertinent knowledge in identifying and solving problems	Apply knowledge of business sustainability to aviation issues
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AT 10000 Introduction to Aviation Technology						Х					
AT 10200 Aviation Business											Х
AT 10300 Aerospace Vehicle Propulsion		Х									
AT 14400 Private Pilot Lectures	Х					Х					
AT 20200 Aerospace Vehicle Systems Design		Х									
AT 20300 Aviation Operations Management		Х									Х
AT 25200 Aviation Projects			Х	Х	Х			Х	X	Х	
AT 36200 Aviation Operations		Х	X						X		Х
AT 41200 Aviation Finance	Х	Х					Х				
AT 42100 Managerial Economics in Aviation	Х	Х					Х				
AT 47500 Aviation Law		l		Χ		X	Х		1		
AT 48100 Aviation Safety Problems				Х				X		Х	
AT 49501 AT Capstone			Х		Х			X			

Graduation Rates

	Number of Professional Fight Degrees Granted								
AY 201	5-16	AY 2016-17	А	Y 2017-18	3	AY 201	8-19	AY 2	2019-20
41		37		55	55 61				56
	Pro	fessional Fligh Technology	t	Gi	ra	duation]	Rate		
				4-Year		5-Year	6-Y	'ear	
		2011		57.7%		75.0%	80.	8%	
		2012		75.0%		83.9%	83	.9%	
		2013		54.0%		74.0%	80	.0%	
		2014		64.5%		79.0%	80.	6%	
		2015		82.1%		87.5%			-
		2016		83.3%					

Number of Professional Flight Degrees Granted

Number of Aviation Management Degrees Granted

Number of Aviation Management Degrees Granted							
AY 2015-16 AY 2016-17 AY 2017-18 AY 2018-19 AY 2019-20							
48	37	34	41	40			

Aviation Management	Gra	Graduation Rate					
	4-Year	4-Year 5-Year 6-Yea					
2011	42.4%	57.6%	66.7%				
2012	63.0%	77.8%	85.2%				
2013	73.7%	84.2%	84.2%				
2014	75.0%	85.0%	85.0%				
2015	61.5%	61.5%					
2016	81.8%		-				

Employment/Graduation Plans

Average Salary, Professional Flight

2015 - \$37,724
2016 - \$40,378
2017 - \$34,555
2018 - \$48,942
2019 - \$47,659

Places of Employment, Professional Flight

Republic Airways	
Republic Airways LIFT Academy	
Sky West Airlines	
Envoy Air	
Endeavor Air	
Purdue Aviation, LLC	
Aspen Helicopters	
Cardinal Wings Aviation	
Western Michigan University	

Plans After Graduation – 5 Year Trend, Professional Flight

Year	Employed	Continuing Education	Seeking Employment	Other
2015	63.6%	27.3%	9.1%	
2016	68.4%	5.3%	10.5%	15.8%
2017	83.3%	16.7%		
2018	69.7%	21.2%		9.1%
2019	63.0%	18.5%		18.5%

Average Salary (Aviation Management)

2015 - \$37,916
2016 - \$47,390
2017 - \$46,000
2018 - \$36,133
2019 - \$48,839

Places of Employment (Aviation Management)

Prime Air
Republic Airways
Indiana Department of Transportation (INDOT)
American Airlines
Indianapolis Airport
Allen County Airport Authority
Louisville Muhammad Ali International Airport

Plans After Graduation – 5 Year Trend, Aviation Management

Year	Employed	Continuing Education	Seeking Employment	Seeking Education	Other
2015	52.4%	23.8%	9.5%	9.5%	4.8%
2016	65.5%	10.3%	10.3%		13.8%
2017	86.7%	13.3%			
2018	46.2%	30.1%	15.4%		7.7%
2019	79.0%	10.5%	10.5%		