

DELTA STATE UNIVERSITY: ACADEMIC ANNUAL
REPORT
Academic Year 2006-07

I. Unit Title: Commercial Aviation

School or College: Business

Unit Administrator: Dr. Tommy Sledge

Educational Program Learning Outcome Assessment Plan

Learner Outcomes identified for the current year.

<p>Learning Outcome <i>What should a graduate in the Commercial Aviation major know, value, or be able to do at graduation and beyond?</i></p>	<p>Data Collection and Analysis <i>1. What assessment tools and/or methods will you use to determine achievement of the learning outcome? 2. Describe how the data from these tools and/or methods will be/have been collected. 3. Explain the procedure to analyze the data.</i></p>	<p>Results of Evaluation <i>What were the findings of the analysis?</i></p>	<p>Use of Evaluation Results <i>1. List any specific recommendations. 2. Describe changes in curriculum, courses, or procedures that are proposed or were made/ are being as a result of the program learning outcome assessment process?</i></p>
<p>Department of Commercial Aviation majors will demonstrate effective oral and written communication skills.</p>	<p>1) At least 80% of the departments majors will earn credit on the writing proficiency/and or CAAP exam. Examine data from Writing Proficiency Exam and the CAAP. 2) At least 90% of the department of aviation graduates responding to the Alumni/Graduate survey will Report that the Department of Aviation Programs enhanced their presentation/writing skills. 3) At least 75% of the employers responding to the Department's Employer Survey will report that the Department of Aviation graduates</p>	<p>50% of the department's majors earned credit on the writing proficiency exam. Recommend students be required to attend a pre test writing seminar.</p> <p>All students responding rated the department excellent in teaching communication skills.</p> <p>This survey will be conducted upon the completion of the Business Graduate Survey.</p>	<p>Additional writing assignments were added to course syllabus to improve student's ability to write. Based upon evaluation results of the 2005-06 academic year a written or research project has been added to aviation classes to enhance student writing/presentation skills.</p> <p>The feedback from this survey will be analyzed and necessary adjustments will be made to the curriculum to improve the learning process.</p>

	demonstrated strong one-on-one interpersonal skills, written communications skills and oral presentation skills.		
Department of Commercial Aviation majors will demonstrate the technical skills required to use and manage aviation technology.	FAA Instrument written examination. Scores received from Lasergrade testing center and maintained in student portfolios at DSU flight training center. Scores are analyzed by aviation faculty and flight training staff each semester.	81% of the majors passed the FAA Private Pilot Written examination on the first attempt. This is higher than the national pass rate of 72%.	Assessment goal was met. Faculty and staff will continue to evaluate results on a semester basis with the thought of raising the goal to 85% for a first time pass rate.
Flight Operation majors will demonstrate a broad understanding of the role and skills required of Commercial Pilots.	FAA Commercial pilot practical test standard in FAA bulletin FAA-S-8081-12B. Flight checks are administered by FAA designated flight examiners independent of DSU.	89% of the majors passed the FAA commercial checkride on the first attempt. This is higher than the national average of 73%.	Assessment goal was met. Faculty and staff will monitor checkride results each semester to ensure our program maintains above the national pass rate average. Students that did not pass the first time are given additional flight training by staff instructors. The department has a 100% pass rate on the second attempt.
Flight Operation majors will demonstrate the ability to reason, analyze, define and solve aviation problems, and make decisions while performing the duties of a certified flight instructor.	FAA Certified Flight Instructor practical test standard in FAA bulletin FAA-S-8081-6BS. Flight checks are administered by FAA designated flight examiners independent of DSU.	57% of the majors passed the FAA instructor checkride on the first attempt. This is higher than the national average of 52%.	Assessment goal was met. Faculty and staff will monitor checkride results each semester to ensure our program maintains above the national pass rate average. Students that did not pass the first time are given additional instructors until they

			meet the standard.flight training by staff
Aviation Management students will demonstrate knowledge of the functional areas of Fixed Base Operations and the role they play in the aviation industry.	The aviation major will achieve a score of at least 80 on the course project measured by common exam administered to all majors by all instructors teaching the Aviation Management Course. The course project will consist of a simulated operation of an airport fuel farm.	91% scored 80 or higher in the aviation management course project. Faculty recommended we set our goal to 90% for students to make 80 or better on the course project and remedial attention will be given by faculty to students who do not make the initial score.	Assessment goal was met. The curriculum committee will meet each semester to determine the best course of action to help students obtain higher scores on their projects.
Aviation Management majors will demonstrate the ability to apply business knowledge to the practice of managing an airport.	The aviation major will achieve a score of at least 80 on the course project measured by common exam administered to all majors by all instructors teaching the Airport Management Course. The course project will consist of a study of extending the runway at the Cleveland Municipal Airport to 5000 feet.	92% scored 80 or higher in the Airport Management project. Faculty recommended we set our goal to 90% for students to make 80 or better on the course project and remedial attention will be given by faculty to students who do not make the initial score.	Assessment goal was met The curriculum committee will meet each semester to determine the best course of action to help students obtain higher scores on their projects.

<p>Aviation Management majors will demonstrate a broad understanding of the aerospace industry.</p>	<p>The aviation major will achieve a score of at least 80 on the course project measured by common exam administered to all majors by all instructors teaching the Air Transportation Course. The project will consist of a study of the impact the introduction of Very Light Jets will have on the national airspace system.</p>	<p>92% of majors scored 80 or higher on their course project. Faculty recommend we improve the percentage of students achieving a score of 80 to a goal of 90%.</p>	<p>Assessment goal was met. The curriculum committee will meet each semester to determine the best course of action to help students obtain higher scores on their projects.</p>
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III. Division/Department Goals for the Current Year

(This is a report on progress towards goals for the current year. These are operational goals for the unit that are NOT tied directly to student learning outcomes which are reported in the table above. An example might be the implementation of a development campaign in conjunction with the DSU Foundation to raise monies for faculty research and travel)

A. Goal # 1 SP#1 Purchase Garmin G1000 Glass Cockpit FTD

1. Institutional Goal which was supported by this goal: SP#1

Commitment to excellence in academic program.

2. Evaluation Procedure(s):

Analysis of the Department Budget showed that such purchase was possible.

3. Actual Results of Evaluation:

\$85,000 was allocated for the purchase of one Aerosim Garmin G100 Advanced Flight Training Device.

4. Use of Evaluation Results:

One Aerosim AFTD was delivered in March, 2007 and installed at the airport. The Advanced Systems Course, CAV 387, was changed to include a section on the operation of glass cockpits using the Garmin G1000. The 14 students enrolled in the course were taught the full range of capabilities that the new technologies make available to pilots in today's modern cockpits.

B. Goal # 2 SP #1

1. Institutional Goal which was supported by this goal: SP#1

Commitment to excellence in academic programs.

2. Evaluation Procedure(s):

Commercial Aviation faculty and staff with help from Dean Moore completed the initial application for Candidate Status with AABI.

3. Actual Results of Evaluation:

Feedback from AABI on our application indicated a need for several curriculum changes as far as math and aviation requirements.

4. Use of Evaluation Results:

College Algebra, Math 104 and Business Calculus, Math 203 have been added as requirements for all aviation majors. Also, CAV 420, Air Carrier Equipment Operations has been changed from an elective to a required course for Flight Operations majors.

IV. Data and information for department: (include narrative of programmatic scope: data)

Credit Hour Production

BCA (undergraduate)	Summer 2006	Fall 2006	Spring 2006	Total
	52	738	836	1626
MCA (graduate)	189	159	228	576
				2202
Enrollment by Major				
Aviation Management	7	25	21	53
Flight Operations	22	49	67	138
Graduate Enrollment	30	29	38	97
Number of Graduates				
BCA		7	11	18
MCA		10	2	12

V. Personnel:

Noteworthy activities and accomplishments: Dr. Tommy Sledge made scholarly presentations at conferences at Oklahoma State University and Delta State. Delta State University's Flight Team finished 15th in the nation in the SAFECON flight competition.

New position(s) requested, with justification: One new faculty position needs to be filled for the Fall 2007 semester. This will allow full time faculty to teach normal 12 hour loads instead of the 15 hours they have taught the last year.

VI. Degree Program Addition/Deletions and/or Major Curriculum Changes:

CAV 387 was changed to include a section on Glass Cockpit Technology based on the Garmin G1000.

Recommended changes for the coming year(s)

Math 104 and Math 203 will be required for all Commercial Aviation Majors. CAV 420 has been made a required course

VII. Division/ Department Goals for the Coming Year

A. Goal # 1 SP # 1 Continue self study that will lead to accreditation by the Aviation Accreditation Board International.

1. Institutional Goal(s) supported by this goal:

Commitment to excellence in academic programs.

2. Expected Results:

We expect the AABI to grant us full candidate status, the year long self study is projected to begin in August 2007.

3. Evaluation Procedure(s):

Commercial Aviation faculty and staff will evaluate the self study with help from the Dean of College of Business.

4. Use of Evaluation Results:

The study will be forwarded to the AABI at which time they will make recommendations to the department prior to a visit by the accreditation committee.

B. Goal # 2 SP # 1 Formalize a Pilot Bridge training agreement with Pinnacle Airlines.

1. Institutional Goal(s) supported by this goal:

Commitment to excellence in academic programs.

2. Expected Results:

Allows Pinnacle Airlines to develop a predictable stream of highly qualified DSU pilots seeking employment with Pinnacle Airlines.

3. Evaluations Procedure:

Working with Pinnacle Airlines, Delta State Commercial Aviation faculty and staff will implement the training curriculum including manuals and checklists, for a CRJ program.

4. Use of Evaluation Results:

When the program is completed Delta State Flight Operations majors will be granted employment interviews with the company with the following minimum qualifications; 400 hours total time and 100 hours multi-engine time.