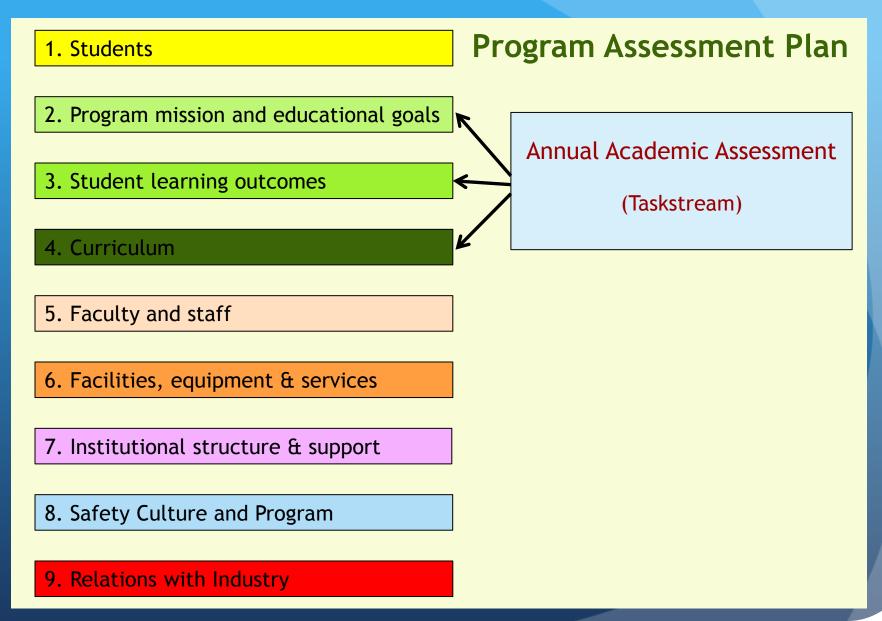
Program Assessment

Department of Aeronautical Science

EMBRY-RIDDLE Aeronautical University. PRESCOTT, ARIZONA

AABI 3.10 Continuous Assessment & Improvement



Annual Academic Assessment

Closing the Loop! Results reviewed by faculty and any recommendations forwarded to Chair. PROGRAM Outcomes not meeting criteria re-evaluated following year.

Assessment Coordinator uses Taskstream to enter course learning outcomes and analyze results for selected Program Learning Outcomes and Educational Goals

Selected Course Learning Outcomes from selected courses are mapped to Program Learning Outcomes and Educational Goals which are assessed on a given timeline

Course Monitors assess every Course Learning Outcomes in all courses every semester

Every MCO lists Course Learning Outcomes

MCO (Master Course Outline)

Master Course Outline (MCO)

EMBRY – RIDDLE AERONAUTICAL UNIVERSITY MASTER COURSE OUTLINE FOR

Course No: <u>AS 350</u> Cr. Hrs: <u>3</u> Title: Domestic and International Navigation

Lecture Hour: 3

Laboratory: 0

COURSE DESCRIPTION:

This course will study FAR Part 121 domestic and flag regulations and evaluate their impact on long-range domestic and international flights. The student will be able to use ICAO, JAA and FAA operational requirements and typical air carrier Ops SPECS to plan domestic and transoceanic flights. CBT simulation programs may be utilized as necessary to demonstrate actual flight scenarios. High altitude airspace, navigation and approach procedure chart interpretation will be examined in detail. Students will study and use the concepts of MNPS and RVSM airspace, dispatch procedures, ETOPS, ETP, drift down, track messages, LRN accuracy checks, Oceanic Air Traffic Control clearances, International METARs and TAFs and emergencies and contingencies while on oceanic tracks. Communication systems requirements and methodology will be examined to include satellite, digital and analog devices.

GOALS:

This is a required course in the Aeronautical Science degree program. This course will provide in-depth instruction and analysis of Domestic and International navigation, planning, procedures, and techniques. The students will be able to successfully flight plan and 'navigate' using appropriate Departure Procedure (DP or SID), Enroute Chart, Arrival Procedure (STAR), Instrument Approach Procedure, or Computer Flight Plan. This course will provide a basic understanding of the rules and procedures for IFR domestic and international flights and give the student a fundamental knowledge of international contingency planning and emergency procedures.

LEARNING OUTCOMES:

- Compare and evaluate the impact of Part 91 and Part 121 regulations that affect domestic and international IFR flights.
- 2 Identify Domestic, Polar, North Atlantic and North Pacific long range navigation routes, diversions and contingencies. Demonstrate the proper calculations and applications of Drift Down, ETOPS, ETP, Gross Error Checks and Accuracy Checks.
- O Develop effective long range domestic and international flights using appropriate data, procedures, routing, charts and contingencies.
- 4 Apply the principles of RNAV flight planning and navigation systems.
- Compare capabilities and limitations of current short and long range navigation systems.
- 6 Explain in writing domestic and international communications equipment and requirements.
- Examine international METARs and TAFs and apply them properly to international flight operations. Describe the difference between "Transition Altitude and Transition Level".
- Bescribe the importance of earth reference systems, chart projections and time zones to navigation procedures.

Academic Assessment Master Matrix

ERAU PRESCOTT - COLLEGE OF AVIATION: AERONAUTICAL SCIENCE ASSESSMENT MATRIX

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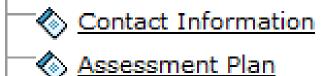
Academic Assessment Master Matrix

PC COA AS OUTCOMES	1. Program grad will demonstrate they are adequat prepared and ha ability to apply knowledge of mathematics, sc and applied scie	that ely ve the ience	2. Program graduates will possess the ability to analyze and interpret data provided from various sources.											
-	various levels of education. Mathematics, Ba		Completion of this course, the student will be able to:											
GEN ED CURRICULUM	Sciences		Compare and evaluate the impact of Part 91and Part 121 regulations that affect domestic nd international IFR flights.											
AABI GENERAL	A. Apply mather science and app science to aviati	di	Identify Domestic, Polar, North Atlantic and North Pacific long range navigation routes, diversions and contingencies. Demonstrate the proper calculations and applications of Drift Down, ETOPS, ETP, Gross Error Checks, and Accuracy Checks.											
(AABI 3.3.1)	related disciplin	U. U	Develop effective long range Domestic and International flights using appropriate data, procedures, routing, charts, and contingencies.											
	2014-2015	4. A	pply the principles of RNAV flight planning and navigation.											
Review Year>	2016-2017	 Compare the capabilities and limitations of current short range and long range navigation systems. 												
A.S. REQD.		-	Compare domestic and international communications equipment and requirements.											
AS121	36		ixamine international METARs and TAFs and apply them properly to international flight											
AS221	27		perations. Describe the difference between 'Transition Altitude' and Transition Level'.											
AS254	***	8. D	bescribe the importance of earth reference systems, chart projections, and time zones to											
AS309	1 2 3 4 9 10		avigation procedures.											
AS310	14													
AS311	2													
AS321 AS350	23478		1 4 5 6 7 8 10 2 3 4 7 8											

Outcome Analysis

PC COA AS OUTCOME GENERAL EDUCATION CURRICULUM	Adequately prepared and have the ability to apply knowledge of mathematics, science and applied sciences at various levels of education. AL TION Mathematics, Basic Sciences Mathematics, Basic Sciences Action																						
AABI GENERAL OUTCOME	science and applied science to aviation- related disciplines.																						
Course	2014-2015	1F	15	2F	2\$	3F	35	4F	4S	5F	58	6F	6S	7F	7S	8F	85	9F	95	10F	10S	PASS	FAIL
AS121 (PREV AS119)	3 6					Y	N					Y	N									2	2
AS221	2 7			Y.	Y									Y.	Y							4	0
AS309	1 2 3 4 9 10	Y	Y	Y	Y	Y	Y	Y	Y									Y	Y	Y	Y.	12	0
AS310	1 2 3 4 9 10 T T T T T T T T T T T T T T T T T T															0							
AS311	1 4 Y Y 4 4 2 Y Y 2 2 2															0							
AS321	3610					Y.	Y.					Y	Y.							Y.	Y.	6	0
AS350	23478			 Y 	NA	Y.	 Y 	N	Y					Y.	- Y -	Y	Y					8	1
AS356	4							NA	Y													1	0
AS410	345					Y	 Y 	Y.	N	Y.	Y.											5	1
AS411 (capstone)	123	NA	Y	NA	Y.	NA	N															2	1
AS420 (capstone)	1 2 3 4 7 8 9	- Y -	N	N	Y.	Y	 Y 	Y.	N					 Y 	Y.	Y	N	N	Y.			9	5
AS435 (capstone)	2			NA	Y																	1	0
WX201	2346			Y	Y.	Y	Y	Y	Y			Y.	Y									8	0
WX301	1567	NA	Y							NA	Y	NA	Y	NA	Y							4	0
Notes:																10							
	A\$350 Objective 2 - Only Fall 2014 data considered due to discovery that Canvas cannot provide statistics for any insturment that has over 100 questions.																						
	I 2014 criteria did not pas																						
	ot available; data deemed			-									-							-			
	ring 2015 criteria did not	pass l	but Fa	II 2014	4 did p	oass.	Future	e mon	itoring) to be	e cond	ucted	by co	ursei	nonito	or.				1	PASS	RATE:	86.5%
AS411 Fall 2014 data no																							
AS435 Fall 2014 data no																							
	id and one semeseter did	i not n	neet c	riteria	for ob	ojectiv	es 1, 2	2, 4, 8	and 9.	Futu	re moi	nitorin	ig to b	e con	ducte	d by c	ourse	moni	tor.				
AS301 Fall 2014 data n	ot provided.																						

2014-2015 Assessment Cycle



BS Aeronautical Science Outcome Set

Outcome

1A. Prepared to apply basic knowledge

Program graduates will demonstrate that they are adequately prepared and have the ability to apply knowledge of mathematics, science and applied sciences at various levels of education. **Measure:** Student performance in course outcomes associated with basic knowledge of mathematics, science and applied sciences. Course level; Direct - Other

Details/Description: Analysis of applicable student learning outcomes as diagrammed in the Taskstream curriculum map and attached Excel spreadsheet defining specific course outcomes associated with each program outcome.

Aeronautical Science Courses included in the analysis are AS121, AS221, AS309, AS310, AS311, AS321, AS350, AS356, AS410, AS411, AS420, and AS435. Meteorology Courses included are WX201, 203L, WX301 and WX364. Helicopter Specialty courses are << TO BE DETERMINED>>

Criterion for Success: 80% or more of of individual course outcome criteria analyzed shall pass the criteria stated in the Master Course Outline Assessment Document.

Timeframe of Data Collection: Course assessment data from two prior semesters within the previous 3 semesters.

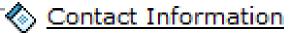
Key/Responsible Personnel: 1) Course monitor responsible for data collection, analysis and submission on university shared drive. 2) Assessment coordinator. 3) Aeronautical Science Chair.

Supporting Attachments:

PRC BSAS_AABI Outcomes Matrix_2015-11-02.pdf (Adobe Acrobat Document)

The Prescott BSAS_AABI Master Matrix document maps Program Outcomes, AABI General Outcomes, General Education Curriculum and AABI Core Topics to courses.

2014-2015 Assessment Cycle



Results for Student performance in course outcomes associated with basic knowledge of mathematics, science and applied sciences.



Summary of Results: The criterion of 80% overall pass rate for analysis of individual course outcomes was exceeded. A total of 74 individual course outcomes were analyzed in this assessment.

Ten (10) individual criteria failed to pass the standard desired by the course monitor. It is noteworthy that no criteria failed in both of the semesters analyzed where data was available for both the Fall 2014 and Spring 2015 semesters. Ten (10) outcomes had data for only one semester as the other semester was unavailable due to problems in the data gathering process. These items are highlighted yellow and annotated as 'NA' on the corresponding spreadsheet attachment for this outcome. 86.5 percent of the 74 outcomes considered met the objective set by the course monitor.

Results: Attainment level: Criterion for Success (not met/ met/ exceeded): Exceeded

Sample Size/ Number of Students Assessed: 74 individual course outline objectives were analyzed by the course monitors. Criterion is designed for each course objective that the monitor is responsible for.

Proposed Improvements: Ten (10) criteria shown in red (not passing) on the attached spreadsheet will be monitored in future semesters for trending information and modifications as appropriate; this action is initiated by course monitors for their respective courses.

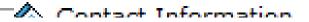
Substantiating Evidence: Add/Edit Attachments and Links

Assessment Matrix for Criteria 1A (Adobe Acrobat Document)

The attached pdf file maps and documents the review of individual course outcomes for each course outcome used to assess criteria 1A.



2014-2015 Assessment Cycle



2014-2015 Assessment Cycle

Improvement Action Plan

Actions

BS Aeronautical Science Outcome Set

Outcome

1A. Prepared to apply basic knowledge

Program graduates will demonstrate that they are adequately prepared and have the ability to apply knowledge of mathematics, science and applied sciences at various levels of education.

Action: Distribution to Faculty

This Action is associated with the following Results No supporting Results have been linked to this Action.

Action Details: Results of the analysis for this outcome shared with faculty. Course monitors cognizant of specific course outcomes that failed to meet their stated objective and will specifically monitor failed areas for at least the next two semesters. Overall this program outcome was successful.

Implementation Timeframe: Fall 2015 / Spring 2016

Key/Responsible Personnel: Course Monitors (as applicable) Chair, Aeronautical Science

Mission Critical Budget Request Description (Optional): N/A

Budget request amount: \$0.00

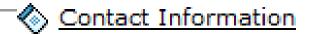
Priority: Medium



Outcome Analysis

PC COA AS OUTCOME GENERAL EDUCATION CURRICULUM	3. Program graduates will demonstrate the ability to make positive contributions and function on multi- disciplinary teams in a crew-type environment. Social Sciences	FALL 2014 & SPRING 2015 Assessment Results ERAU Prescott - College of Aviation Aeronautical Science Department														llts							
GENERAL OUTCOME	multi-disciplinary and diverse teams.																						
Course	2014-2015	1F	1\$	2F	2S	3F	3S	4F	4S	5F	5S	6F	6S	7F	7S	8F	8S	9F	9S	10F	10S	PASS	FAIL
AS221	10																			Y.	Y.	2	0
AS350	3					Y.	Y															2	0
AS357	3 5 6 7					Y.	Y			N	 Y 	N	N	Υ.	N							4	4
AS387	678											Y.	Y.	Y.	Y.	Y.	Y					6	0
AS402	2357					Y.	N	Y.	N			N	Y.			N	N					3	5
AS410	269			Y.	Y							Y	Y.					Y.	Y.			6	0
AS411 (capstone)	3					NA	N															0	1
AS420 (capstone)	1 3 4 9 10	Y	N			Y.	Y	Y.	N									N	Y	 Y 	- Y -	7	3
AS435 (capstone)	7													NA	NA							0	0
Notes: Totals: 30 13 PASS RATE: 69.8% AS411 Fall 2014 data not available. AS435 data not available. Totals: 30 13																							
																						Rate:	69.8%

2014-2015 Assessment Cycle



3C. Ability to function and contribute in a team environment

Program graduates will demonstrate the ability to make positive contributions and function on multidisciplinary teams in a crew-type environment.

Add New Action

Action: Distribution to Faculty and Reassessment for 2015-2016 Cycle Add

Add/Edit Results | Edit | Remove

This Action is associated with the following Results @

Action Details: Results of the analysis for this outcome shared with faculty. Course monitors cognizant of specific course outcomes that failed to meet their stated objective and will specifically monitor failed areas for at least the next two semesters.

This program outcome failed to meet the overall objective of 80% passing individual course objectives related to operating in a team environment. Prior to accomplishing this assessment, the Industrial Advisory Board (IAB) recommended increasing program content in the area of cross-cultural communication and operating in a team environment. As a result of this, the A.S. program requirements were modified to require HU420, Applied Cross-Cultural Communication. The fact that this program outcome did not meet it's objective is additional validation that the IAB recommendation had merit. This objective will be re-assessed in the 2015-2016 assessment cycle to identify any changes or trends.

Implementation Timeframe: Fall 2015 / Spring 2016

Key/Responsible Personnel: COA Assessment Coordinator (collection of data and assessment analysis) Course Monitors (as applicable) Chair, Aeronautical Science

Mission Critical Budget Request Description (Optional): N/A

Budget request amount: \$0.00

Priority: High

Supporting Attachments: Add/Edit Attachments and Links



Questions?