Standing Requirements

Program Mission Statement

The mission of the Ph.D. in Aviation program is to produce outstanding scholars for careers in research and teaching in the aviation field.

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ERAU University Mission Statement

Our mission is to teach the science, practice and business of aviation and aerospace, preparing students for productive careers[1] and leadership roles in service around the world.[2]

Our technologically enriched, student-centered environment[3] emphasizes learning through collaboration and teamwork,[4] concern for ethical and responsible behavior,[5] cultivation of analytical[6] and management abilities,[7] and a focus on the development of the professional skills needed for participation in a global community.[8] We believe a vibrant future for aviation and aerospace rests in the success of our students. Toward this end, Embry-Riddle is committed to providing a climate that facilitates the highest standards of academic achievement[9] and knowledge discovery,[10] in an interpersonal environment that supports the unique needs of each individual.[11] Embry-Riddle Aeronautical University is the world's leader in aviation and aerospace education. The University is an independent, non-profit, culturally diverse institution providing quality education and research in aviation, aerospace, engineering and related fields leading to associate's, baccalaureate's, master's and doctoral degrees.

Program Alignment to University Mission

Select all that apply.

- [1]Preparing students for productive careers
- [2]Preparing students for leadership roles in service around the world
- [3]Technologically enriched environment
- [4]Emphasize learning through collaboration and teamwork
- [5]Concern for ethical and responsible behavior
- [6]Cultivate analytical abilities
- [7]Cultivate management abilities
- [8]Develop the professional skills needed for participation in a global community
- [9]Facilitating the highest standards of academic achievement
- [10]Facilitating knowledge discovery
- [11]Providing an interpersonal environment that supports the unique needs of each individual

Standing Requirements

Program Outcomes

PhD Philosophy in Aviation Outcome Set

Outcome

Outcome	Mapping
DB_PHDA_PO_01 Develop mastery of the central theories Develop mastery of the central theories and concepts in the field of aviation, including foundations, safety management, economics, and regulatory procedures.	No Mapping
DB_PHDA_PO_02 Pose and solve theory-based and research-based problems designed to advance applications in the field of aviation.	No Mapping
DB_PHDA_PO_03 Extend the aviation body of knowledge by conceiving, planning, producing, and communicating original research.	No Mapping
DB_PHDA_PO_04 Acquire expertise in instructional processes.	No Mapping
DB_PHDA_PO_05 Demonstrate leadership, collaboration, and communication necessary for scholarly work in aviation.	No Mapping

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Ph.D. in Aviation Curriculum Map

Courses and Activities Mapped to PhD Philosophy in Aviation Outcome Set

	Outcome				
	DB_PHDA_PO_01 Develop mastery of the central theories Develop mastery of the central theories and concepts in the field of aviation, including foundations, safety management, economics, and regulatory procedures.	DB_PHDA_PO_02 Pose and solve theory-based and research-based problems designed to advance applications in the field of aviation.	DB_PHDA_PO_03 Extend the aviation body of knowledge by conceiving, planning, producing, and communicating original research.	DB_PHDA_PO_04 Develop and demonstrate expertise in instructional processes.	DB_PHDA_PO_05 Demonstrate leadership, collaboration, and communication necessary for scholarly work in aviation.
Courses and Learning Activities					
DAV 711 FOUNDATIONS OF AVIATION	**M**			**M**	**M**
DAV 721 QUANTITATIVE RESEARCH METHODS IN AVIATION	**M**				
DAV 712 AVIATION SAFETY MANAGEMENT SYSTEMS		**P**	**P**		
DISSERTATION DISSERTATION		**M**	**M**		
DAV 733 GLOBALIZATION AND THE AVIATION ENVIRONMENT				**M**	
DAV 714 THE LEGAL ENVIRONMENT OF AVIATION			**P**		
DAV 713 THE ECONOMIC ENVIRONMENT OF AVIATION					**M**
DAV 735 CURRENT PRACTICES AND FUTURE TRENDS IN AVIATION					**P**

Legend : **I** Introduced **P** Practiced **M** Mastered

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Ph.D. in Aviation Assessment

Courses and Activities Mapped to PhD Philosophy in Aviation Outcome Set

	Outcome				
	DB_PHDA_PO_01 Develop mastery of the central theories Develop mastery of the central theories and concepts in the field of aviation, including foundations, safety management, economics, and regulatory procedures.	DB_PHDA_PO_02 Pose and solve theory-based and research-based problems designed to advance applications in the field of aviation.	DB_PHDA_PO_03 Extend the aviation body of knowledge by conceiving, planning, producing, and communicating original research.	DB_PHDA_PO_04 Develop and demonstrate expertise in instructional processes.	DB_PHDA_PO_05 Demonstrate leadership, collaboration, and communication necessary for scholarly work in aviation.
Assessment Cycle					
2010-11 Assessment Cycle					
2011-12 Assessment Cycle	✔			✔	
2012-13 Assessment Cycle		✔	✔		
2013-14 Assessment Cycle					✔
2014-15 Assessment Cycle	✔			✔	
2015-16 Assessment Cycle		✔	✔		
2016-17 Assessment Cycle					✔
2017-18 Assessment Cycle	✔			✔	
2018-19 Assessment Cycle		✔	✔		
2019-20 Assessment Cycle					✔

Legend : ✔ = Aligned

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2017-2018 Assessment Cycle

Assessment Plan

Measures

PhD Philosophy in Aviation Outcome Set

Outcome

Outcome: DB_PHDA_PO_01

Develop mastery of the central theories Develop mastery of the central theories and concepts in the field of aviation, including foundations, safety management, economics, and regulatory procedures.

Measure: Qualifying Exam

Program level Direct - Exam

Details/Description:	Qualifying Exam at or near the end of course work in the Ph.D. program
Criterion for Success:	80% of the students will pass the core section of the qualifying exam on the first attempt
Timeframe of Data Collection:	Spring, 2018
Key/Responsible Personnel:	Chair, Assessment Committee for Ph.D. in Aviation

Measure: Rubric-Based Scoring in DAV 711

Course level Direct - Exam

Details/Description:	Final Exam
Criterion for Success:	50% of the students will score a 90% or higher, with no more than 5% receiving a total score of less than 70%
Timeframe of Data	Spring, 2018

Collection:	
Key/Responsible Personnel:	Chair, Assessment Committee for Ph.D. in Aviation

Measure: Rubric-Based Scoring in DAV 712

Course level Direct - Exam

Details/Description:	Rubric-Based Scoring of Activity 12.2 (final exam) in DAV 712
Criterion for Success:	50% of the students will score a 90% or higher, with no more than 5% receiving a total score of less than 70%
Timeframe of Data Collection:	Fall, 2017
Key/Responsible Personnel:	Chair, Assessment Committee for Ph.D. in Aviation

Measure: Rubric-Based Scoring in DAV 721

Course level Direct - Exam

Details/Description:	Rubric-Based Scoring of Activity 12.6 (quiz six covering elaboration model and comparing means, statistical analysis and ANOVA) in DAV 721
Criterion for Success:	70% of the students will score a 70% or higher
Timeframe of Data Collection:	Fall, 2017
Key/Responsible Personnel:	Chair, Assessment Committee for Ph.D. in Aviation

Measure: Student Survey

Program level Indirect - Survey

Details/Description:	Survey given to graduating students
Criterion for Success:	80% of the students will indicate satisfaction with

	their knowledge of aviation core topic areas
Timeframe of Data Collection:	At the end of each term
Key/Responsible Personnel:	Chair, Assessment Committee for Ph.D. in Aviation

Outcome: DB_PHDA_PO_04
Develop and demonstrate expertise in instructional processes.

Measure: Rubric-Based Scoring in DAV 711
Course level Direct - Student Artifact

Details/Description:	Rubric-Based Scoring of Activity 2.2 (the ancients individual written assignment peer evaluation) in DAV 711
Criterion for Success:	50% of the students will score a 90% or higher, with no more than 5% receiving a total score of less than 70%
Timeframe of Data Collection:	Spring, 2018
Key/Responsible Personnel:	Chair, Assessment Committee for Ph.D. in Aviation

Measure: Rubric-Based Scoring in DAV 733
Course level Direct - Student Artifact

Details/Description:	Rubric-Based Scoring of Activity 11.3 (roundtable 3: week 3 [this is a writing roundtable exercise in which multiple levels of critiques are accomplished]) in DAV 733
Criterion for Success:	50% of the students will score a 90% or higher, with no more than 5% receiving a total score of less than 70%

Timeframe of Data Collection:	Spring 2018
Key/Responsible Personnel:	Chair, Assessment Committee for Ph.D. in Aviation

Measure: Student Survey
Program level Indirect - Survey

Details/Description:	ERAU Graduating Student Survey
Criterion for Success:	80% of the students will indicate satisfaction with their knowledge of instructional processes
Timeframe of Data Collection:	At the end of each term
Key/Responsible Personnel:	Chair, Assessment Committee for Ph.D.. in Aviation

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