**Standing Requirements** 

**Program Mission Statement** 

General Education Program Mission

Recognizing its general and special missions in education, Embry-Riddle

Aeronautical University embraces a General Education Program. This course of

study ensures that students possess the attributes expected of all university

graduates. The General

Education Program enables students, regardless of their degree program, to

understand the significance of acquiring a broad range of knowledge.

Throughout the General Education Program, students gain and enhance

competence in written and oral communication. They practice reasoning and

critical thinking skills and demonstrate computer proficiency. As students engage

in this course of study, they familiarize themselves with and investigate ideas and

methodologies from several disciplines. These include the arts and humanities, the

social sciences, economics, the natural sciences and mathematics. The program

also helps students recognize

interrelationships among the disciplines.

Promoting the appreciation of varied perspectives, the General Education Program

provides intellectual stimulation, ensuring that students are broadly educated. This

course of study empowers students to make informed value judgments, to expand

their knowledge and understanding of themselves, and to lead meaningful,

responsible, and satisfying lives as individuals, professionals, and concerned

members of their society and the world. Over 4500 students are enrolled in the

General Education Program at Daytona Beach.

**Program Alignment to University Mission** 

Form: Alignment to University Mission

# **ERAU University Mission Statement**

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

Our technologically enriched, student-centered environment<sup>3</sup> emphasizes learning through collaboration and teamwork,<sup>4</sup> concern for ethical and responsible behavior,<sup>5</sup> cultivation of analytical<sup>6</sup> and management abilities,<sup>7</sup> and a focus on the development of the professional skills needed for participation in a global community.<sup>8</sup> 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<sup>9</sup> and knowledge discovery,<sup>10</sup> in an interpersonal environment that supports the unique needs of each individual.<sup>11</sup> 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

# Program Alignment to University Mission

# Select all that apply.

# **Program Outcomes**

DB_Gen_Ed Program Outcomes		
Outcome		
Outcome	Mapping	
PO_01	Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Quantitative Reasoning (DB, PC, WW)	

<sup>&</sup>lt;sup>1</sup>Preparing students for productive careers

<sup>&</sup>lt;sup>2</sup>Preparing students for leadership roles in service around the world

<sup>&</sup>lt;sup>3</sup>Technologically enriched environment

<sup>&</sup>lt;sup>4</sup>Emphasize learning through collaboration and teamwork

<sup>&</sup>lt;sup>5</sup>Concern for ethical and responsible behavior

<sup>&</sup>lt;sup>6</sup>Cultivate analytical abilities

<sup>&</sup>lt;sup>8</sup>Develop the professional skills needed for participation in a global community

<sup>&</sup>lt;sup>9</sup>Facilitating the highest standards of academic achievement

<sup>&</sup>lt;sup>10</sup>Facilitating knowledge discovery

Apply knowledge of collegelevel mathematics for defining and solving problems.

# PO\_02

Construct effective written documents for technical and non-technical audiences.

Embry-Riddle General Education Competency Set: Communication (DB, PC, WW), Information Literacy (DB, PC, WW)

### PO 03

Communicate ideas in nonwritten form, such as through oral presentations and visual media. Embry-Riddle General Education Competency Set: Communication (DB, PC, WW)

### PO 04

Conduct and report research accurately and in accordance with professional standards.

Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Information Literacy (DB, PC, WW)

# PO\_05

Recognize the importance of ethical responsibility both professionally and socially.

Embry-Riddle General Education Competency Set: Cultural Literacy (DB, PC, WW), Scientific Literacy (DB, PC, WW)

# PO 06

Identify some of the important results of scientific inquiry in the physical and natural sciences, and use scientific information in critical thinking and decision-making. Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Scientific Literacy (DB, PC, WW)

#### PO 07

Use technology to organize and manipulate information to communicate ideas and concepts.

Embry-Riddle General Education Competency Set: Communication (DB, PC, WW), Information Literacy (DB, PC, WW)

# PO\_08

Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Quantitative Reasoning (DB, PC, WW) Apply economic principles to identify, formulate, and solve problems.

# PO 09

Demonstrate an awareness and understanding of the values communicated through the humanities. Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Cultural Literacy (DB, PC, WW)

# PO\_10

Describe some of the historical and contemporary issues that affect societies.

Embry-Riddle General Education Competency Set: Cultural Literacy (DB, PC, WW)

# PO\_11

Recognize the complexity of human experience from a variety of perspectives, for example, cultural, aesthetic, social, technological, scientific, psychological, philosophical, and historical. Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Cultural Literacy (DB, PC, WW)

# FL - Embry-Riddle General Education Competency Set (Copy 2)

#### **General Education Competencies**

Competency	Mapping
Critical Thinking (DB, PC, WW) The student will apply knowledge at the synthesis level to define and solve problems within professional and personal environments.	Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW)
Quantitative Reasoning (DB, PC, WW)	Embry-Riddle General Education Competency Set: Quantitative Reasoning (DB, PC, WW)

The student will demonstrate the use of digitally-enabled technology (including concepts, techniques and tools of computing), mathematics proficiency & analysis techniques to interpret data for the purpose of drawing valid conclusions and solving associated problems.

Information Literacy (DB, PC, WW)

The student will conduct meaningful research, including gathering information from primary and secondary sources and incorporating and documenting source material in his or her writing.

Embry-Riddle General Education Competency Set: Information Literacy (DB, PC, WW)

Communication (DB, PC, WW) The student will communicate concepts in written, digital and oral forms to present technical and non-technical information.

Embry-Riddle General Education Competency Set: Communication (DB, PC, WW)

Scientific Literacy (DB, PC, WW)

The student will be able to analyze scientific evidence as it relates to the physical world and its interrelationship with human values and interests.

Embry-Riddle General Education Competency Set: Scientific Literacy (DB, PC, WW)

Cultural Literacy (DB, PC, WW)

The student will be able to analyze historical events, cultural artifacts, and philosophical concepts.

Embry-Riddle General Education Competency Set: Cultural Literacy (DB, PC, WW)

# **Curriculum Map**

# **Mapping Matrixs**

DB General Education Curriculum Map Alignment Set: DB\_Gen\_Ed Program Outcomes

**Created:** 08/07/2014 7:52:47 am EDT

Last Modified: 08/11/2014 2:13:37 pm EDT

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#### **DB General Education Curriculum Map**

Show Outcome Descriptions	Show Course/Activity Detail     Show Course/Activity Detail     ■    ■    ■    ■    ■    ■    ■										
						Outcome					
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AG, 412 Surveillance and Contrib Systems						P					
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# **Assessment Schedule**

# **Mapping Matrixs**

Assessment Schedule<sup>4</sup>

[Print View] [PDF]

Alignment Set: DB\_Gen\_Ed Program Outcomes

Created: 08/16/2014 8:15:15 am EDT

Last Modified: 08/21/2014 11:15:56 am EDT

#### **Assessment Schedule**

Courses and Activities Mapped to DB\_Gen\_Ed Program Outcomes

	Outcome											
	PO_01 Apply knowledge of college-level mathematics for defining and solving problems.	PO_02 Construct effective written documents for technical and non-technical audiences.	PO_03  Communicate ideas in non-written form, such as through oral presentations and visual media.	PO_04 Conduct and report research accurately and in accordance with professional standards.	PO_05 Recognize the importance of ethical responsibility both professionally and socially.	PO_06 Identify some of the important results of scientific inquiry in the physical and natural sciences, and use scientific information in critical thinking and decision-making	PO_07 Use technology to organize and manipulate information to communicate ideas and concepts.	PO_08 Apply economic principles to identify, formulate, and solve problems.	PO_09 Demonstrate an awareness and understanding of the values communicated through the humanities	PO_10 Describe some of the historical and contemporary issues that affect societies.	PO_11  Recognize the complexity of human experience from a variety of perspectives, for example, cultural aesthetic, social, technological, scientific, psychological, philosophical, and historical.	
DB General Education Ass	sessment Cycles											
2014-15 Assessment Cycle	~	~	~		V	~		~		~		
2015-16 Assessment Cycle				~			~		~		~	
2016-17 Assessment Cycle	~	~	~	~								
2017-18 Assessment Cycle					~	v	v	~				
2018-19 Assessment Cycle									~	~	~	
2019-20 Assessment Cycle												

Last Modified: 08/21/2014 11:15:56 AM 5 taskstrea

# **Additional Information (Optional)**

#### File Attachments:

- 1. DB Gen Ed Program Outcomes Curriculum Map.xlsx
- 2. DB Gen Ed Program Outcomes Map..xls

#### **Contact Information**

Form: Contact Information

# Please fill out the form with the information of the person responsible for the assessment plan.

Contact Name	
First	Last
Alan	Pratt
<b>□</b> Email	
pratta@erau.edu	
<sup>3</sup> Phone Number	
226.7779	
Assessment Plan	
Measures	

# **DB\_Gen\_Ed Program Outcomes**

Outcome

Outcome: PO\_01

Apply knowledge of college-level mathematics for defining and solving

problems.

Measure: AT202 Introduction to Air Traffic Management

▼Program level; Direct - Exam

Details/Description: Students will be assessed by administering several

> written exams which will cover the information imparted to that point. This is followed with a course comprehensive final exam. These predetermined questions will be used to measure knowledge of college-level mathematic formulas and techniques used to separate aircraft using time, speed and distance. They will also be tested on their ability to read and understand approach procedures used by

pilots in bad weather and communicate that

information to the pilot.

Criterion for Success: The outcome will be considered "attained" via these

> direct assessments when 80% of the students enrolled achieve a final grade of 80% or higher. Failure to reach this threshold should prompt the

course instructor(s) /faculty mentor(s) to

communicate with one another regarding how to improve performance on the respective criterion.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Edward L. Mummert

Course Monitor AT202

Supporting Attachments:

AT202 GenEd Assessment.docx (Word Document (Open XML))

Outcome: PO 02

Construct effective written documents for technical and non-technical

audiences.

Measure: AT202 Introduction to Air Traffic Management ▼Program level; Direct - Student Artifact

Details/Description: Satisfactory to excellent performance on Final Report

as evaluated by a faculty committee with shared

rubric.

Criterion for Success: 80% of the team projects falling within this range

will be deemed acceptable.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Emily Faulconer

Course Monitor PS 142

Supporting Attachments:

Measure: PS 142 Introduction to Environmental Science

▼Program level; Indirect - Survey

Details/Description: LO2: Indirect Assessment: survey questions

administered via Canvas (

Criterion for Success: Acceptable response rate is 80% of the class with a

positive response from 75% of participants.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Emily Faulconer

Course Monitor PS 142

Supporting Attachments:

2016-17 Gen Ed Plan PS142 Faulconer.docx (Word Document (Open XML))

Outcome: PO 03

Communicate ideas in non-written form, such as through oral presentations and visual media.

Measure: AT202 Introduction to Air Traffic Management

▼Direct - Student Artifact

Details/Description: Using written exams, students will be tested on their

ability to decipher aeronautical charts, maps and

other publications and convey that information verbally to pilots in a clear and concise method. Additionally, students are required to visualize three dimensional airspace and determine what each

separate piece of airspace represents.

Criterion for Success: Success Criteria: The outcome will be considered

> "attained" via these direct assessments when 80% of the students enrolled achieve a final grade of 80% or higher. Failure to reach this threshold should prompt

the course instructor(s) /faculty mentor(s) to communicate with one another regarding how to improve performance on the respective criterion.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Edward L. Mummert

Course Monitor AT202

Supporting Attachments:

AT202 GenEd Assessment.docx (Word Document (Open XML))

Outcome: PO 06

Identify some of the important results of scientific inquiry in the physical and natural sciences, and use scientific information in critical thinking and decisionmaking.

Measure: PS 142 Introduction to Environmental Science

▼Program level; Indirect - Survey

Details/Description: LO6: Indirect Assessment: survey questions

administered via Canvas

Criterion for Success: (acceptable response rate is 80% of the class with a

positive response from 75% of participants)

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: **Emily Faulconer** 

Course Monitor PS 142

Supporting Attachments:

2016-17 Gen Ed Plan PS142 Faulconer.docx (Word Document (Open XML))

Measure: PS 142 Introduction to Environmental Science

▼Program level; Direct - Exam

Details/Description: Pre and post on a select quiz.

Criterion for Success: A 30% improvement in at least 70% of the class will

be deemed acceptable.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Emily Faulconer

Course Monitor PS 142

Supporting Attachments:

Outcome: PO 07

Use technology to organize and manipulate information to communicate ideas

and concepts.

Measure: BA 352 - Business Quantitative Methods ▼Program level; Direct - Student Artifact

Details/Description: Implement mathematical model on a computer using

Microsoft Excel and understand the resulting output.

Criterion for Success: At least 70% of submission to the final problem

solving project from the course will demonstrate acceptable use of Microsoft Excel to organize, manipulate, and solve business related problems.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: John Longshore

Course Monitor

Supporting Attachments:

■ BA 352.docx (Word Document (Open XML))

Additional/Ad-hoc Program Improvements (Optional)

**Attachments**