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.

ERAU University Mission Statement

Our mission is to teach the science, practice and business of aviation and aerospace, preparing students for productive careers¹ and leadership roles in service around the world.²

Our technologically enriched, student-centered environment³ emphasizes learning through collaboration and teamwork,⁴ concern for ethical and responsible behavior,⁵ cultivation of analytical⁶ 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 achievement⁹ 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

Program Alignment to University Mission

Select all that apply.

¹Preparing students for productive careers

²Preparing students for leadership roles in service around the world

³Technologically enriched environment

⁴Emphasize learning through collaboration and teamwork

⁵Concern for ethical and responsible behavior

⁶Cultivate analytical abilities

⁸Develop the professional skills needed for participation in a global community

⁹Facilitating the highest standards of academic achievement

¹⁰Facilitating knowledge discovery

Program Outcomes

C	B_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)

PO_02 Construct effective written documents for technical and non-technical audiences.Embry-Riddle General Education Competency Set: Communication (DB, PC, WW)PO_03 Communicate ideas in non- written 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)PO_05 Recognize the importance of ethical responsibility both professionally and socially.Embry-Riddle General Education Competency Set: Cultural 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: Cultural Literacy (DB, PC, WW)PO_07 Use technology to organize and manipulate information to competency Set: Critical Thinking (DB, PC, WW), Information Literacy (DB, PC, WW)PO_08Embry-Riddle General Education Competency Set: Communication (DB, PC, WW), Information Literacy (DB, PC, WW)PO_08Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Unformation Literacy (DB, PC, WW), Communication (DB, PC, WW), Co	Apply knowledge of college- level mathematics for defining and solving problems.	
Communicate ideas in non- written form, such as through oral presentations and visual media.Competency Set: Communication 	Construct effective written documents for technical and	Competency Set: Communication (DB, PC, WW), Information Literacy
Conduct and report research accurately and in accordance with professional standards.Competency Set: Critical Thinking (DB, PC, WW), Information Literacy 	Communicate ideas in non- written form, such as through oral presentations and visual	Competency Set: Communication
Recognize the importance of ethical responsibility both professionally and socially.Competency Set: Cultural Literacy (DB, PC, WW), Scientific Literacy (DB, PC, WW)PO_06 Identify some of the important results of scientific inquiry in 	Conduct and report research accurately and in accordance	Competency Set: Critical Thinking (DB, PC, WW), Information Literacy
Identify some of the important results of scientific inquiry in the physical and natural sciences, and use scientific 	Recognize the importance of ethical responsibility both	Competency Set: Cultural Literacy (DB, PC, WW), Scientific Literacy
Use technology to organize and manipulate information to communicate ideas and concepts.Competency Set: Communication (DB, PC, WW), Information Literacy (DB, PC, WW)PO_08Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Quantitative	Identify some of the important results of scientific inquiry in the physical and natural sciences, and use scientific information in critical thinking	Competency Set: Critical Thinking (DB, PC, WW), Scientific Literacy
Competency Set: Critical Thinking (DB, PC, WW), Quantitative	Use technology to organize and manipulate information to communicate ideas and	Competency Set: Communication (DB, PC, WW), Information Literacy
	PO_08	Competency Set: Critical Thinking (DB, PC, WW), Quantitative

PO_09 Demonstrate an awareness and understanding of the values communicated through Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Cultural Literacy (DB, PC, WW)
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.
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.
Quantitative Reasoning (DB, PC, WW)Embry-Riddle General Education Competency Set: Quantitative Reasoning (DB, PC, WW)

F

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)

DB General Education 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

Show Outcome Descriptions
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Mapping Matrixs @

Assessment Schedule⁴

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

Show Outcome Descriptions 📃 Show Course/Activity Detail

		Outcome									
	PO_01 Apply knowledge of college-level mathematics for defining and solving problems.	PQ_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.	PQ_06 Identify some of the important results of scientific neury in the physical and natural sciences, and use scientific information in critical thinking and decision-making.	PQ_07 Use technology to organize and manipulate information to communicate ideas and concepts.	PO_08 Apply economic principles to identify formulate. and solve problems.	PQ_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 experienc from a variety of perspectives, for example, cultural assthutic, social, scientific, psychological, philosophical, an historical
DB General Education	Assessment Cycles										
2014-15 Assessment Cycle	~	~	~		~	~		~		~	
2015-16 Assessment Cycle				~			~		~		~
2016-17 Assessment Cycle	~	~	~	~							
2017-18 Assessment Cycle					~	v	~	*			
2018-19 Assessment Cycle									~	~	~
2019-20 Assessment Cycle											

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Additional Information (Optional)

File Attachments:

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

[Print View] [PDF]

Contact Information

Form: Contact Information

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

Contact Name	
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Assessment Plan

Measures

DB_Gen_Ed Program Outcomes

Outcome

Outcome: PO_01

Apply knowledge of college-level mathematics for defining and solving problems.

Measure: BA 332 Corporate Finance I. Students will apply the fundamentals of algebra and elementary probability in the class.

Program level; Direct - Student Artifact

Details/Description:

We propose to administer Pre-and post-tests to the students to assess their academic progress at the beginning and at the end of a course. The results of the pre-test will provide a baseline for the student's current knowledge of the subject. The differences between the

	pre-test and post-test reflects the learning that occurred during the semester and illustrates students' individual knowledge gain.
Criterion for Success:	We propose that the test would be randomly administered to 50% of the students in the class and the students taking the test would achieve a score of 70% or above on the test.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Vedapuri Raghavan, Course Monitor

Supporting Attachments:

BA332_assessment_pLan_gened_outcomes.docx
(Word Document (Open XML))

Measure: BA 312 Corporate Finance Survey Short Essay *Indirect - Other*

Details/Description:	We propose to use a one minute paper and student surveys to assess this outcome in BA 332: Corporate Finance I.
Criterion for Success:	We will administer the paper and survey to 50% of the students in the class and 80% of the students completing the survey and the one minute paper would state that they have applied college level math and economic principles in the class.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Vedapuri Raghavan, Course Monitor

Measure: BA 420: Management of Production and Operations Pre/Post Test *Program level; Direct - Exam*

Details/Description: The assessment will be conducted in Fall and Spring semesters. The objective of this assessment is to

	evaluate General Education Outcome 1 for BA 420. The aforementioned outcome is concerns with assessing students' ability to apply knowledge of college-level mathematics for defining and solving problems. We propose to assess the outcomes using a direct measure.
	We propose to administer Pre-and post-tests to the students to assess their academic progress at the beginning and at the end of a course. The results of the pre-test will provide a baseline for the student's current knowledge of the subject. The differences between the pre-test and post-test reflects the learning that occurred during the semester and illustrates students' individual knowledge gain.
Criterion for Success:	We propose that the test would be administered to all of the students in the class and the students taking the test would achieve a score of 70% or above on the test.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Farshid Azadian, Course Monitor

Supporting Attachments:

GenEd Assessment Plan - BA 420.docx (Word Document (Open XML))

Measure: BA 420: Management of Production and Operations, Survey ▼Program level; Indirect - Survey

Details/Description:	We propose to use a one minute paper and student surveys to assess this outcome in BA 420.
Criterion for Success:	We will administer the paper and survey to 50% of the students in the class and 80% of the students completing the survey and the one minute paper would state that they have applied college level math and economic principles in the class.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Farshid Azadian, Course Monitor

Outcome: PO_03 Communicate ideas in non-written form, such as through oral presentations and visual media.

Measure: Capstone courses Survey

Course level; Indirect - Focus Group

Details/Description:	A survey of students in SYS417/418, EE420/421, CEC 420/421, SE 450/451, and CS 490/491 – ECSSE Capstone Design Courses
	The instructors shall add two statements to the end-of- term course evaluations within EvaluationKit for the fall 2015 and spring 2016 evaluations.
	 This course prepared me to communicate in non- written form such as oral presentations in visual media. This course prepared me to identify important engineering results and apply critical thinking and decision making based upon those results.
	The students must respond using a Likert scale as 1- Not at all, 2-Very Little, 3-Some, 4-Quite a bit, and 5- Very Much
Criterion for Success:	A mean score of 3 or higher will indicate a successful attainment of this outcome.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Richard S. Stansbury

Supporting Attachments:

Assessment Plan 2015-2016 (Word Document (Open XML))

Measure: Capstone Design Presentations - Evaluation *Course level; Direct - Other*

Details/Description:	Capstone Presentations in SYS417/418, EE420/421, CEC 420/421, SE 450/451, and CS 490/491 – ECSSE
	Outcome 3 will be assessed upon the December and April design presentations. Students will be assessed individually and collectively within their team.
	Details/Description: Rubrics are created for each attribute/deliverable pair (multiple student deliverables assessed for each attribute when possible). The faculties then assess the student work given the rubric and identify if it is Unsatisfactory, Satisfactory, or Excellent. This data is collected on a student-by- student basis in an Excel spreadsheet. The aggregated result indicates the percentage of student work for each attribute and outcome that is unsatisfactory, satisfactory, excellent, and satisfactory or excellent.
Criterion for Success:	The criteria for successful attainment of an outcome at any of the levels (artifact, course, and program outcome) will be if for student performance that 75% or more attain satisfactory or excellent performance.
Timeframe of Data Collection:	Fall 2015 -Spring 2016
Key/Responsible Personnel:	Richard S. Stansbury

Outcome: PO_05 Recognize the importance of ethical responsibility both professionally and socially.

Measure: Capstone Courses: evalutation of student engineering notebooks *Course level; Direct - Student Artifact*

Details/Description:	SYS417/418, EE420/421, CEC 420/421, SE 450/451, and CS 490/491 – ECSSE Capstone Design Courses
	Outcome 5 will be assessed upon the student engineering notebooks at the end of the fall term and again at the end of the spring term.
	Details/Description: . Rubrics are created for each attribute/deliverable pair (multiple student deliverables

	assessed for each attribute when possible). The faculties then assess the student work given the rubric and identify if it is Unsatisfactory, Satisfactory, or Excellent. This data is collected on a student-by- student basis in an Excel spreadsheet. The aggregated result indicates the percentage of student work for each attribute and outcome that is unsatisfactory, satisfactory, excellent, and satisfactory or excellent.
Criterion for Success:	The criteria for successful attainment of an outcome at any of the levels (artifact, course, and program outcome) will be if for student performance that 75% or more attain satisfactory or excellent performance.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Richard S. Stansbury, Course Monitor

Supporting Attachments:

ecsse-capstone-General Education Assessment Plan.docx (Word Document (Open XML))

Measure: Student Survey, Capstone Courses Course level; Indirect - Survey

Details/Description:	SYS417/418, EE420/421, CEC 420/421, SE 450/451, and CS 490/491 – ECSSE Capstone Design Courses
	Details/Description: The instructors shall add two statements to the end-of-term course evaluations within EvaluationKit for the fall 2015 and spring 2016 evaluations.
	 This course prepared me to communicate in non- written form such as oral presentations in visual media. This course prepared me to identify important engineering results and apply critical thinking and decision making based upon those results.
	The students must respond using a Likert scale as 1-

Not at all, 2-Very Litte, 3-Some, 4-Quite a bit, and 5-Very Much

- Criterion for Success: A mean score of 3 or higher will indicate a successful attainment of this outcome.
- Timeframe of Data Collection: Fall 2015 2016
- Key/Responsible Personnel: Richard S. Stansbury

Supporting Attachments:

ecsse-capstone-General Education Assessment Plan.docx (Word Document (Open XML))

Outcome: PO_08

Apply economic principles to identify, formulate, and solve problems.

Measure: BA 332: Corporate Finance | Pre/Post test *Program level; Direct - Student Artifact*

Details/Description:	We propose to administer Pre-and post-tests to the students to assess their academic progress at the beginning and at the end of a course. The results of the pre-test will provide a baseline for the student's current knowledge of the subject. The differences between the pre-test and post-test reflects the learning that occurred during the semester and illustrates students' individual knowledge gain.
Criterion for Success:	We propose that the test would be randomly administered to 50% of the students in the class and the students taking the test would achieve a score of 70% or above on the test.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Vedapuri Raghavan, Course Monitor

Measure: BA 420: Management of Production and Operations * Program level; Direct - Exam

Details/Description:	We propose to administer Pre-and post-tests to the students to assess their academic progress at the beginning and at the end of a course. The results of the pre-test will provide a baseline for the student's current knowledge of the subject. The differences between the pre-test and post-test reflects the learning that occurred during the semester and illustrates students' individual knowledge gain.
Criterion for Success:	We propose that the test would be administered to all of the students in the class and the students taking the test would achieve a score of 70% or above on the test.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Farshid Azadian, Course Monitor

Supporting Attachments:

GenEd Assessment Plan - BA 420.docx (Word Document (Open XML))

Measure: EC 210 Microeconomics, Survey ▼Program level; Indirect - Survey

Details/Description:	For the indirect measure of student perceptions a questionnaire with a Likert scale will be used.
Criterion for Success:	The goal will be 80% either strongly agree or agree that they have gained a better understanding of historical and contemporary issues related to economics.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Thomas Tacker, Course Moniter

Measure: EC210 Microeconomics, Pre/Post Test * Program level; Direct - Exam

Details/Description:	Outcome will be assessed through the pre/post test.
Criterion for Success:	The goal is a 75% improvement.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Thomas Tacker, Course Monitor

Supporting Attachments:

EC210Assessment Report Plan (0000003).docx (Word Document (Open XML))

Outcome: PO_10 Describe some of the historical and contemporary issues that affect societies.

Measure: EC 210 Microeconomics, Pre/post Test ▼Program level; Direct - Exam

Details/Description:	Outcome will be assessed through the pre/post test.
Criterion for Success:	The goal is a 75% improvement.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Thomas Tacker, Course Monitor

Measure: EC 210 Microeconomics, Survey ▼Program level; Indirect - Survey

Details/Description:	For the indirect measure of student perceptions a questionnaire with a Likert scale will be used.
Criterion for Success:	The goal will be 80% either strongly agree or agree that they have gained a better understanding of

	historical and contemporary issues related to economics.
Timeframe of Data Collection:	Fall 2015 - Spring 2016
Key/Responsible Personnel:	Thomas Tacker, Course Monitor

Additional/Ad-hoc Program Improvements (Optional)

Attachments