Program Mission Statement

Recognizing its general and special missions in education, Embry-Riddle embraces a general education program. This course of study ensures that students possess the attributes expected of all University graduates. Encouraging intellectual self-reliance and ability, 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 including the arts and humanities, the social sciences, 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.

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 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.

Program Outcomes

FL - Embry-Riddle General Education Competency Set (Copy 1)

General Education Competencies

¹Preparing students for productive careers

²Preparing students for leadership roles in service around the world

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

¹¹Providing an interpersonal environment that supports the unique needs of each individual

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) 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.	Embry-Riddle General Education Competency Set: Quantitative Reasoning (DB, PC, WW)
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	Embry-Riddle General Education Competency Set: 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.

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)

PC_Gen_Ed Program Outcomes

Outcome

Outcome	Mapping
PC_GENED_PO_01 Math Apply knowledge of college- level mathematics for defining and solving problems.	No Mapping
PC_GENED_PO_02 Writing Construct effective written documents for technical and non-technical audiences.	No Mapping
PC_GENED_PO_03 Speech Communicate ideas in non- written form, such as through oral presentations and visual media.	No Mapping
PC_GENED_PO_04 Research Conduct and report research accurately and in accordance with professional standards.	No Mapping
PC_GENED_PO_05 Ethics	No Mapping

Recognize the importance of ethical responsibility both professionally and socially. **No Mapping** PC GENED PO 06 Science 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. No Mapping PC_GENED_PO_07 Tech Use technology to organize and manipulate information to communicate ideas and concepts. No Mapping PC GENED PO 08 Economics Apply economic principles to identify, formulate, and solve problems. **No Mapping** PC GENED PO 09 Humanities Demonstrate an awareness and understanding of the values communicated through the Humanities. No Mapping PC GENED PO 10 Social Describe some of the historical and contemporary issues that affect societies. No Mapping PC_GENED_PO_11 Complexity Recognize the complexity of human experience from a variety of perspectives, for example, cultural, aesthetic, social, technological, scientific, psychological, philosophical, and historical.

Curriculum Map

Mapping Matrixs

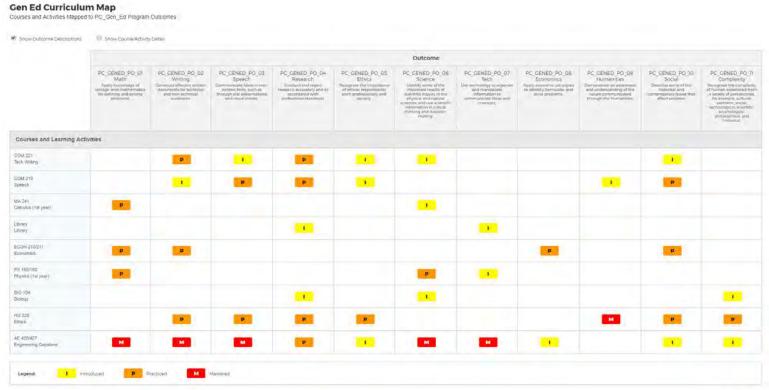
Gen Ed Curriculum Map[®]

Alignment Set: PC_Gen_Ed Program Outcomes

Created: 05/06/2014 5:21:05 pm EDT

Last Modified: 05/06/2015 2:08:59 pm EDT

[Print View] [PDF]



Last Modified: 05/06/2015 02:08:59 PM

crested 5 taskstream

Assessment Schedule

Mapping Matrixs @

Assessment Schedule⁴

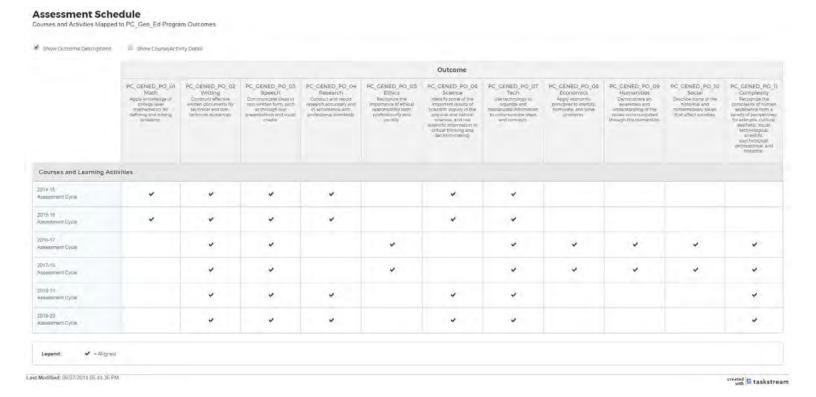
[Print View] [PDF]

Alignment Set: PC_Gen_Ed Program Outcomes

Created: 05/06/2014 5:37:25 pm EDT

Last Modified: 06/27/2014 5:44:36 pm EDT

Years vs Program Outcomes



Additional Information (Optional)

- Gen Ed program outcomes were developed with input from the University Gen Ed Committee, and are similar across all three campuses.
- We assess courses two years in a row, so that we can immediately track the results of changes implemented based upon data/results from the first year.
- Due to unexpected staffing changes, assessment plans are sometimes (often?) developed in the late summer/early fall. It also makes sense to develop assessment plans at the same time one is preparing to teach a course.
- The Prescott Gen Ed committee coordinates and provides guidance for Gen Ed assessment, but leaves the actual details
 of assessment to individual faculty.

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
Edward	Poon
8 Email	
poon3de@erau.edu	
Phone Number	
(928) 777-3752	
Assessment Plan	
Measures	

PC_Gen_Ed Program Outcomes

Outcome

Outcome: PC_GENED_PO_02 Writing

Construct effective written documents for technical and non-technical

audiences.

Measure: Comparison of writing samples

▼Course level; Direct - Student Artifact

Details/Description: Pre- and post-course writing samples from selected

sections of COM 221 and the engineering design

capstone courses will be compared.

Criterion for Success: On the post-test students will score an aggregate

mean of 70%, furthermore students will show a significant improvement from pre- to post-measures

of at least 10% of the mean aggregate score.

Timeframe of Data Collection: Fall 2016 and Spring 2017

Key/Responsible Personnel: To be determined.

Measure: Student evaluations

▼Course level; Indirect - Survey

Details/Description: Student evaluations of COM 221 will be used as an

indirect assessment of students' perception of their ability to communicate effectively. This performance

indicator will be assessed by the question: "My experiences in this course have improved my ability

to communicate effectively."

Criterion for Success: At least 70% of students will respond Agree or

Strongly Agree, and no more than 10% of students

will respond Disagree or Disagree Strongly.

Timeframe of Data Collection: Fall 2016 and possibly Spring 2017

Key/Responsible Personnel: Dr. Angela Beck, HU/COM

Outcome: PC_GENED_PO_03 Speech

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

visual media.

Measure: Capstone course/senior design project ▼Course level; Direct - Student Artifact Details/Description: Students enrolled in all AE/ME Engineering Capstone

courses will be assessed on their final capstone presentations. These Engineering Capstone briefing assessments will use as instrument developed by teams of HU/COM and AE faculty over the past 9 years. This instrument provides a discreet item analysis of critical oral presentation elements (e.g., pacing, volume, eye contact, engagement, fillers, appropriate register, appropriate vocabulary, good teamwork, question-and-answer skills). Student scores are used for general education assessment, ABET assessment, and a portion of each student's

final course grade.

Criterion for Success: All students in all sections of AE/ME capstone in each

semester will have their final briefing scores

aggregated; students will score an aggregate mean

of 75% in Fall 2014 and 75% in Spring 2015.

Timeframe of Data Collection: Fall 2016 and Spring 2017

Key/Responsible Personnel: HU/COM and AE/ME faculty teaching Engineering

Capstone courses in Fall 2016 and Spring 2017 will assess all students in all sections of AE/ME capstone.

Measure: Self-evaluation of speaking skills

*Course level; Direct - Other

Details/Description: Students enrolled in COM 219 will demonstrate

effective evaluation of their own speaking skills as exhibited through self-evaluations of speeches,

online guizzes, and course evaluations.

Criterion for Success: Students enrolled in COM 219: Speech will

demonstrate effective evaluation of their own

speaking skills as exhibited through self-evaluations of speeches, online quizzes, and course evaluations. Specifically, the mean difference between student self-reports and instructor evaluations will be no

more than 10%.

Timeframe of Data Collection: Fall 2016 and Spring 2017

Key/Responsible Personnel: To be determined.

Measure: Student evaluations

▼Course level; Indirect - Survey

Details/Description: On the end-of-course evaluations for COM 219

students will be asked if they agree or disagree with the following statement: "This course has improved

my ability to communicate."

Criterion for Success: At least 70% of the students will agree or strongly

agree with the statement: "This course has improved

my ability to communicate."

Timeframe of Data Collection: Fall 2016 and Spring 2017

Key/Responsible Personnel: To be determined

Outcome: PC_GENED_PO_05 Ethics

Recognize the importance of ethical responsibility both professionally and socially.

Measure: Ethical argument for a professional dilemma

▼Course level: Direct - Exam

Details/Description: Selected guestions from the HU 330: Values and

Ethics final exam will be graded to assess students' ability to articulate an ethical argument in response to a professional dilemma using recognized ethical systems. All students enrolled in Fall 2016 in either HU 330.01 or HU 330.02 will participate (approx. 60

students).

Criterion for Success: At least 70% of the students will score above 70%

on the selected question, AND no more than 10% of the students will score below 50% on the selected

question.

Timeframe of Data Collection: Fall 2016

Key/Responsible Personnel: Dr. Kelly Lambert

Measure: Ethical argument for lifelong learning

*Course level; Direct - Exam

Details/Description: Selected questions from the HU 330: Values and

Ethics final exam will be graded to assess students' ability to articulate an ethical argument justifying the need to engage in lifelong learning. All students enrolled in Fall 2016 in either HU 330.01 or HU 330.02 will participate (approx. 60 students).

Criterion for Success: At least 70% of the students will score above 70%

on the selected question, AND no more than 10% of the students will score below 50% on the selected

question.

Timeframe of Data Collection: Fall 2016

Key/Responsible Personnel: Dr. Kelly Lambert

Measure: Student Evaluations

*Course level; Indirect - Survey

Details/Description: Student evaluations of HU 330 will be used as an

indirect assessment of students' perception of their

understanding of professional and ethical

responsibilities. This performance indicator will be assessed by the question: "My experiences in this course have improved my understanding of

professional and ethical responsibility."

Criterion for Success: At least 70% of students will respond Agree or

Strongly Agree, and no more than 10% of students

will respond Disagree or Disagree Strongly.

Timeframe of Data Collection: Fall 2016

Key/Responsible Personnel: Dr. Kelly Lambert HU/COM

Outcome: PC_GENED_PO_08 Economics

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

Measure: Selected test questions ▼Course level; Direct - Exam

Details/Description: Selected questions from the EC 210 final exam will

be graded to assess student understanding and application of basic principles in economics. All students in selected sections of EC 210 will

participate.

Criterion for Success: The mean score on these questions will be at least

70%.

Timeframe of Data Collection: Fall 2016

Key/Responsible Personnel: Dr Ricardo A Carreras

Additional/Ad-hoc Program Improvements (Optional)

Attachments