Program Mission Statement

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.

Embry-Riddle Aeronautical University's general education program encourages effective learning and provides a coherent base for students to pursue their academic specializations. In specific support of the goals of general education,

candidates for bachelor degrees must complete course work or demonstrate competency in the following areas: English, Mathematics, Physical Sciences, and Social Sciences and Economics.

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 careers¹ and leadership roles in service around the world.²

Our technologically enriched, student-centered environment³emphasizes 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.¹¹Embry-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

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

Program Outcomes

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) 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)	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)

Lifelong Personal Growth (WW Only)

The student will be able to demonstrate the skills needed to enrich the quality of life through activities which enhance and promote lifetime learning.

the analysis and interpretation

of data for the purpose of

Embry-Riddle General Education Competency Set: Lifelong Personal Growth (WW Only)

General Education Outcome Set

Outcome

Outcome Mapping WW_BSGE_PO_01 **Embry-Riddle General Education Competency Set:** Critical Thinking Mathematical Reasoning: (DB, PC, WW), Quantitative Reasoning (DB, PC, WW) Apply knowledge of college level mathematics to defining and solving problems. **Embry-Riddle General Education** WW_BSGE_PO_02 **Competency Set:** Critical Thinking Quantitative Analysis: (DB, PC, WW), Information Literacy (DB, PC, WW), Quantitative Apply statistical methods in

Reasoning (DB, PC, WW)

drawing valid conclusions relating to the solutions of problems.

WW_BSGE_PO_03
Written Communication:

Communicate ideas in written form in both technical and non-technical areas.

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

WW_BSGE_PO_04
Oral and Visual
Communication:

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

WW_BSGE_PO_05 Ethical and Social Responsibility:

Recognize the importance of professional, ethical and social responsibility.

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

WW_BSGE_PO_06
Environmental Awareness:

Understand the natural world, to include the impact of the environment on aerospace operations and aerospace operations on the environment, as well as everyday life and professional experiences.

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

WW_BSGE_PO_07
Technological Literacy:

Use digitally-enabled

Embry-Riddle General Education Competency Set: Communication (DB, PC, WW), Critical Thinking (DB, PC, WW), Information Literacy (DB, technology to organize and manipulate data, perform calculations, aid in solving problems, and communicate solutions, ideas, and concepts. PC, WW), Quantitative Reasoning (DB, PC, WW), Scientific Literacy (DB, PC, WW)

WW_BSGE_PO_08
Scientific Reasoning:

Use scientific information in critical thinking and decision-making processes.

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

WW_BSGE_PO_09 Teamwork:

Function on multi-cultural and/or multi-disciplinary teams.

Embry-Riddle General Education Competency Set: Communication (DB, PC, WW), Cultural Literacy (DB, PC, WW), Lifelong Personal Growth (WW Only)

WW_BSGE_PO_10 Economic Reasoning:

Apply economic principles to identify, formulate, and solve problems within professional and personal environments.

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

WW_BSGE_PO_11 Professional Engagement:

Identify and participate in professional and personal development activities through organizations and self-directed learning.

Embry-Riddle General Education Competency Set: Communication (DB, PC, WW), Cultural Literacy (DB, PC, WW), Lifelong Personal Growth (WW Only)

WW_BSGE_PO_12 Social Awareness:

Understand contemporary issues in society.

Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Cultural Literacy (DB, PC, WW), Information Literacy (DB, PC, WW), Lifelong Personal Growth (WW Only) WW_BSGE_PO_13
Multicultural Competence:

Recognize the complexity and diversity of the human experience, including cultural, aesthetic, psychological, philosophical, and spiritual dimensions.

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

WW_BSGE_PO_14 Information Literacy:

Conduct and report research in accordance with professional standards.

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

Curriculum Map

Mapping Matrixs

College of Arts & Sciences Curriculum Map

Alignment Set: General Education Outcome Set

Created: 09/30/2013 10:00:17 am EDT

Last Modified: 10/29/2013 5:04:22 pm EDT

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College of	Arts &	Sciences	Curriculun
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Assessment Schedule

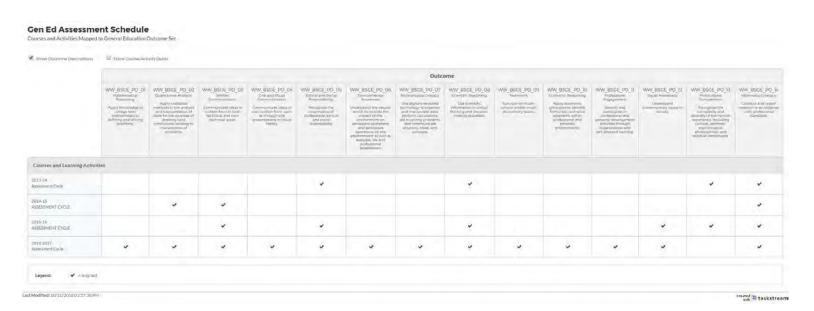
Mapping Matrixs ®

Gen Ed Assessment Schedule

[Print View] [PDF]

Alignment Set: General Education Outcome Set Created: 09/30/2013 10:53:43 am EDT

Last Modified: 10/11/2016 3:57:38 pm EDT



Additional Information (Optional)

Contact Information

Form: Contact Information

Contact Name

First Last
Thomas Sieland

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Phone Number

770-499-8017

Assessment Plan

Measures

General Education Outcome Set

Outcome

Outcome: WW_BSGE_PO_05

Ethical and Social Responsibility:

Recognize the importance of professional, ethical and social responsibility.

Measure: Overall Student Performance Goal

▼Course level; Direct - Exam

Details/Description: HUMN 330 – Values and Ethics

This course focuses on the process of practical ethics as a way of resolving moral conflict and of understanding professional responsibility in a multiculturally diverse society without devaluing specific viewpoints of ethical or metaphysical theory, ideology, or religion. With basic moral logic, students will examine issues in terms of rights, responsibilities, and the community of rational beings; in terms of consequences and contingencies; and in terms of habituated virtues and character.

This course is designed to help students: 1) Understand the basic vocabulary and fundamental theories of ethics; 2) Discover life's values and determine which values are the most worthwhile; 3) Relate the textbook theories to actual life situations; 4) Find greater personal peace by choosing more constructive values; 5) Apply understanding of ethics to personal lives; 6) Understand the relationship between attitudes, values and moral conduct.

The primary rationale at the foundation of the course design is workplace relevance. All topics, activities, and assignments have been selected because of their applicability to a professional environment.

The Final Exam is a two-part test - 5 essay questions for each part. The Final is comprehensive (Modules 1-4 and 5-9, Chapters 1-13) and is t taken during Week 9.

Criterion for Success: Set an overall goal of 80% of the students achieving an

overall grade of 75% or higher on the 10 question set.

Timeframe of Data

Collection:

October - December 2013

Key/Responsible

Personnel:

Donna Roberts, Discipline Chair, Psychology &

Sociology

Measure: Student Performance Content Goal

▼Course level; Direct - Exam

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This course focuses on the process of practical ethics as a way of resolving moral conflict and of understanding professional responsibility in a multiculturally diverse society without devaluing specific viewpoints of ethical or metaphysical theory, ideology, or religion. With basic moral logic, students will examine issues in terms of rights, responsibilities, and the community of rational beings; in terms of consequences and contingencies; and in terms of habituated virtues and character.

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Criterion for Success: Set a content goal that no question on the 10 question

exam will have a score of less than 70% of the points

available for the question.

Timeframe of Data

Collection:

October – December 2013

Key/Responsible

Personnel:

Donna Roberts, Discipline Chair, Psychology &

Sociology

Outcome: WW_BSGE_PO_08

Scientific Reasoning:

Use scientific information in critical thinking and decision-making processes.

Measure: Measurement Title: Student Performance Content Goal

Course level: Direct - Exam

There are 13 chapter guizzes in WEAX 201, Details/Description:

Meteorology I, and in each guiz there are at least 3

questions that require students to use scientific

reasoning and critical thinking to answer the questions, for a total of 39 possible questions to choose from. I

selected 20 of the best questions to use in this

assessment of scientific reasoning and critical thinking.

There are 13 chapter guizzes in WEAX 201,

Meteorology I, and in each quiz there are at least 3 questions that require students to use scientific

reasoning and critical thinking to answer the questions, for a total of 39 possible questions to choose from. I

selected 20 of the best questions to use in this

assessment of scientific reasoning and critical thinking.

Criterion for Success: Set a content goal that no question on the 20 question

exam will have a score of less than 70% of the points

available for the question.

Timeframe of Data

Collection:

October – December 2013

Key/Responsible

Personnel:

Tom Sieland, Course Monitor and Developer

Measure: Overall Student Performance Goal

▼Course level; Direct - Exam

Details/Description: There are 13 chapter quizzes in WEAX 201,

Meteorology I, and in each quiz there are at least 3 questions that require students to use scientific

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selected 20 of the best questions to use in this

assessment of scientific reasoning and critical thinking.

Criterion for Success: Set an overall goal of 80% of the students achieving an

overall grade of 75% or higher on the 20 question set.

Timeframe of Data

Collection:

October – December 2013

Key/Responsible Personnel:

Tom Sieland, Course Monitor and Developer

Outcome: WW_BSGE_PO_13 Multicultural Competence:

Recognize the complexity and diversity of the human experience, including cultural, aesthetic, psychological, philosophical, and spiritual dimensions.

Measure: HUMN 210 World Culture

▼Course level; Direct - Student Artifact

Details/Description: HUMN 210 focuses on the cultural development of

world societies including but not limited to religious, social, political, and philosophical arenas as all apply to

contemporary circumstances.

The major goals of the course: students will have an overview of world cultures from early modern history to the present, emphasizing the contributions of all world cultures to the advancement of a global civilization; will be familiar with important events and themes of various world cultures and; will be able to research analyze, discuss and appreciate literary, philosophical, artistic and historical documents.

One of the major learning outcomes for the course is that students will research (in writing), through examination and analysis of primary and secondary sources, a country or specific society and its customs and practices while highlighting overall cultural contributions to a global world society (Activity 8.5).

Criterion for Success: Set an overall goal of 80% of the students achieving an

overall grade of 75% or higher on the research paper.

Timeframe of Data

Collection:

December 2013 - March 2014

Key/Responsible

Personnel:

Ann Marie Ade, Discilpine Chair English & Speech

Outcome: WW_BSGE_PO_14

Information Literacy:

Conduct and report research in accordance with professional standards.

Measure: ENGL 221 Technical Report Writing ▼Course level; Direct - Student Artifact

Details/Description: ENGL 221 introduces students to the preparation of

formal and informal technical reports, abstracts, proposals, instructions, professional correspondence and other forms of technical communication. Major emphasis is placed on the long technical report and the

acquisition of advanced writing skills.

Part of this course involves student writing a formal, researched and documented report with aesthetically pleasing title page, a letter of transmittal, tables of content and of tables and figures, an informative abstract, and clearly identified sections with headings

throughout the report (Activity 9.1).

Criterion for Success: Set an overall goal of 80% of the students achieving an

overall grade of 75% or higher on the final report.

Timeframe of Data

Collection:

December 2013 - March 2014

Key/Responsible

Personnel:

Ann Marie Ade, Discipline Chair English and Speech

Measure: Student's Ability to Collect Information through appropriate channels

▼Course level; Direct - Student Artifact

Details/Description: RSCH 202 will be assessed for Information Literacy. In

order to assess this learning outcome, two activities of

RSCH 202 will be utilized:

Activity 3.5 (Case Studies): In Activity 3.5, there are two case studies, one on interviewing from Chapter 7

and the other on Observation from Chapter 8. Students will read through the two case studies, select one of the two, and answer the questions at the end of the case study they choose. Students will write their answers in complete sentences using a Word Document.

This assignment demonstrates students' ability to collect meaningful information, in addition to how to collect that information. Furthermore, this assignment focuses on collecting data through surveys, and thus why the next assessment item will also be used.

Activity 5.6 (Final Literature Review): The core of the Activity is a Literature Review. The assignment states: The primary purpose of this assignment is to help you understand that the literature review is an integral part of any research project and how it lays the groundwork for the investigation you will do.

Thus Activity 5.6 contrasts Activity 3.5 and thus together they form a cohesive assessment of Information Literacy.

See attached files for both the activities above, and the grading rubric.

Criterion for Success:

Assessment Criteria for Success: 70% of the students should earn a 75% or above.

Timeframe of Data Collection:

RSCH 202 will be assessed in the March 2014 semester. All RSCH 202 course instructors will provide students' scores on Activity 5.6. to Dr. Heather Garten, who will do a statistical analysis to determine if the Assessment Criteria for Success was met. If the Criteria for Success were not met, the course activity will be reexamined. First, Dr. Garten will compare and contrast students' responses: Those who did master versus those who did not master the skill. Where there is evidence of weakness and/or a common mistake, course remediation will be implemented immediately and the assessment will take place again in the following semester.

Key/Responsible Personnel:

Dr. Heather L Garten

Supporting Attachments:

- RSCH 202 Activity 3_5 Solutions.pdf (Adobe Acrobat Document)

Additional/Ad-hoc Program Improvements (Optional)

Attachments