

General Education Program (F2012-S2013)

Date of report: **September 10, 2013**
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About this Assessment Plan

Settings

Assessment Plan Place: General Education

Assessment Unit Information

* Select Assessment Planning Form [2012-2013] Daytona Beach College of Arts & Sciences Academic Plans

* Program Name: General Education Program (F2012-S2013)

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Contact Phone: 226 7779

* Public? No

Status of Assessment Plan

* Status of Assessment Planning = Approved; Improvement = Approved Plan

Program Mission Statement

* Program Mission Statement

General Education Program

Constituting nearly one-third of all Embry-Riddle degree programs with over 4600 students enrolled, the General Education Program reflects the faculty's collective judgement about what all students should know. The General Education Program and the Major Program of every baccalaureate degree constitute a single, integrated curriculum.

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.

Alignment of Program Mission Statement to University Mission

Select checkboxes below for all of the appropriate elements that indicate how your Unit Mission aligns with the University Mission Statement.

University Mission Statement:

At Embry-Riddle, our mission is to teach the science, practice and business of aviation and aerospace, preparing students for productive careers and leadership roles in service around the world.

Our technologically enriched, student-centered environment emphasizes learning through collaboration and teamwork, concern for ethical and responsible behavior, cultivation of analytical and management abilities, and a focus on the development of the professional skills needed for participation in a global community. 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 and knowledge discovery, in an interpersonal environment that supports the unique needs of each individual. 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.

Preparing Students for Productive Careers Yes

Preparing students for leadership roles in service around the world Yes

Technologically enriched environment Yes

Emphasize learning through collaboration and teamwork No

Concern for ethical and responsible behavior Yes

Cultivate analytical abilities Yes

Cultivate management abilities No

Develop the professional skills needed for participation in a global community No

Facilitating the highest standards of academic achievement Yes

Facilitating knowledge discovery Yes

Providing an interpersonal environment that supports the unique needs of each individual No

Assessment Year in Review

Ad Hoc Improvements in Past Year (optional) Continued modifications to the catalog to standardize the presentation of General Education.

Collaboration with Others to Evaluate Assessment Results and Recommend Improvements

Changes to Assessment Organization, Processes, Participants (optional)

Additional Information (optional) Attached: Assessment plans for this year's six courses (Fall 2012 - Spring 2013). **2nd year of 3-year cycle (F 2012 - S 2014)**

year cycle (1 2012 - 3 2014)

Assessment results due Sept. 2013

Attach File(s) (optional)

Attachments	Type
KorneckiEC210Assesment ProposalFall 2012-13.docx	Attachment
ME 419 Assessment Plan.docx	Attachment
PS 101 Chemistry AssessmentPlan.docx	Attachment
PS195Z_Assessment_Plan(1).doc	Attachment
Spring 2012 Assessment of HS 490 Senior Project, Homeland Security.docx	Attachment
WX356 Gen Ed Assessment Plan Guinn cor(1).docx	Attachment

System Information

Last Modified Date Tuesday, September 4, 2012 3:30:44 PM EDT
 Last User to Modify pratta

Assessment Plan Outcomes

Name	Description	Status	Public
Communication Technology			No
Economic Principles			No
Ethical Responsibility			No
Human Experience			No
Oral Communication			No
Research			No
Scientific Inquiry			No
Written Documents			No

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Assessment Plan Outcomes

Communication Technology

Select Outcome to Assess from Master List of Outcomes

Instructions: Below, click the "BROWSE" button to:

- (REQUIRED)** Select an outcome to assess from Master List of Program Outcomes ("BROWSE" -> "Master List of Program Outcomes" -> "GO" button).
- (OPTIONAL)** Align outcome with any other applicable standards such as AABI, ABET, General Education Outcomes: ("BROWSE" -> "Standards" -> "GO" button).

* Select Outcome from Master List of Outcomes 07. DB_GENED_PO_07_Communication Technology Use technology to organize and manipulate information to communicate ideas and concepts.

* Assessment Outcome Communication Technology
 Title

Assessment Measures, Criteria for Success and Results

Measurement One

Outcome Title Communication Technology

* Means of Assessment Other (please specify below)

Description of 'Other' Means of Assessment WX 356 Synoptic Meteorology Lab Report Results SLO 7 Direct assessment 1: Students will be given a lab assignment requiring the use of NMAP to analyze surface, upper-air and satellite data.

Details of Assessment
Measurement (Timeframe
of Data Collection,
Participants/Roles, etc.)

* Criterion for Success SLO 7 Direct assessment 1: The criterion of success for this assessment is that at least 70% of WX356 students examined will successfully complete the lab with a score of 75% or better.

Assessment Results /
Data Collected

Measurement Two

Means of Assessment

Description of 'Other'
Means of Assessment WX 356 Synoptic Meteorology Lab Report Results SLO 7 Direct assessment 2: Students will be given a lab assignment requiring the use of GARP to analyze surface, upper-air and satellite data.

Details of Assessment
Measurement

Criterion for Success SLO 7 Direct assessment 2: The criterion of success for this assessment is that at least 70% of WX356 students examined will successfully complete the lab with a score of 75% or better. .

Assessment Results /
Data Collected

Measurement Three

Means of Assessment ERAU Student Satisfaction Survey

Description of 'Other'
Means of Assessment SLO 7 Indirect assessment: The following three survey questions will be provided to the students during the final exam. Students may respond with: Strongly Disagree, Disagree, Neither Agree nor Disagree, Agree, or Strongly Agree.

Details of Assessment
Measurement See attachment: [DB_GENED COMM \[2012-13\] ASMEAS MEAS3 DET.pdf](#)

Criterion for Success SLO 7 Indirect assessment: The criterion for success is that at least 75% of the students surveyed will select "Strongly Agree" or "Agree."

Assessment Results /
Data Collected

Measurement Four

Means of Assessment

Description of 'Other'
Means of Assessment

Details of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected

Measurement Five and Up

For Outcomes with more than four measurements, select means of assessment for measures five and up from the list below (check all that apply). Then list the details for measurements 5 and up in the areas below. Please number them appropriately in each text area, starting with number 5.

Capstone course / senior No
design project

Exam in non-culminating No
course(s)

Public scored artifact in No

Rubric-scored assignments in non-culminating course(s)	No
End of course evaluations	No
Focus group/structured interviews (students, faculty)	No
ERAU Student Satisfaction Survey	No
ERAU Graduating Student Survey	No
ERAU Alumni Survey	No
ERAU Employer Feedback Survey	No
National Survey of Student Engagement (NSSE)	No
Incoming Freshmen Survey (CIRP)	No
Other national survey	No
External or internal peer review	No
Retention / graduation rates	No
Employment placement / continuing education rates	No
Other (Please specify below)	No
Description of 'Other' Means of Assessment	
Details of Assessment Measurement	
Criterion / Criteria for Success	
Assessment Results / Data Collected	

Improvements

Assessment Outcome Title

Outcome Title Communication Technology

Use of Assessment Results

Have assessment results been used to make improvements?

Pedagogical modifications were made No

Course sequence was altered No

Technology-related changes were made **No**
 Personnel-related changes were made **No**
 Other **No**

Description of Improvements

Attach File(s) (optional)

Attachments

Type

[DB_GENED COMM\[2012-13\] ASMEAS MEAS3 DET.pdf](#)

Attachment

Planned Future Improvements

Indicate and describe any planned improvements. If new funds are required for planned improvements, you will also need to complete the next tab, "Mission Critical Budget Request".

Do assessment results indicate any critical improvements that must be made in the next fiscal year?

Description of Planned Improvements

Mission-Critical Budget Request

Assessment Outcome Title

Outcome Title Communication Technology

Mission-Critical Budget Request

Title of Budget Request

Details of Budget Request

Are capital funds required?

Total Amount of Operating Funds Requested

Salaries: \$

Duration:

Benefits: \$

Duration:

Professional Development: \$

Duration:

Computer Hardware: \$

Duration:

Computer Software: \$

Duration:

Other Operating Funds: \$

Duration:

📌 Economic Principles

Select Outcome to Assess from Master List of Outcomes

Instructions: Below, click the "BROWSE" button to:

1. (REQUIRED) Select an outcome to assess from Master List of Program Outcomes ("BROWSE" -> "Master List of Program Outcomes" -> "GO" button).

2. (OPTIONAL) Align outcome with any other applicable standards such as AABI, ABET, General Education Outcomes: ("BROWSE" -> "Standards" -> "GO" button).

✳ Select Outcome from Master List of Outcomes 08.DB_GENED_PO_08_Economic Principles Apply economic principles to identify, formulate, and solve problems.

✳ Assessment Outcome Title Economic Principles

Assessment Measures, Criteria for Success and Results

Measurement One

Outcome Title Economic Principles

✳ Means of Assessment Capstone course / senior design project

Description of 'Other' Means of Assessment HU 490 Senior Project in Homeland Security

Details of Assessment Measurement (Timeframe of Data Collection, Participants/Roles, etc.) PO8 Direct Assessment 1: The written student product deliverable to the client needs to incorporate a detailed, three year net present value analysis in order to characterize the economic impact of the proposed solution on the client's organization. PO8 direct assessment 1 will be of the economic analysis portion of the grading rubric for the deliverable to the client. PO8 Indirect Assessment: The following four survey questions will be provided to the students at the end of the semester. Students may respond with: Strongly Disagree, Disagree, Neither Agree nor Disagree, Agree, or Strongly Agree in a Likert type scale.

✳ Criterion for Success PO8 Direct Assessment 1: The criterion of success for this assessment is that at least 80% of HS 490 student groups will achieve a score of 80/100 or better on the economic analysis. PO8 Indirect Assessment: The criterion for success is that at least 75% of the students surveyed will select "Strongly Agree" or "Agree."

Assessment Results / Data Collected

Measurement Two

Means of Assessment Other (please specify below)

Description of 'Other' Means of Assessment EC 210 Microeconomics: Pre- and post-test

Details of Assessment Measurement Pre- and post-test will be given to the students at the beginning and at the end of the semester to assess their academic progress. The results of the pre-test provided a baseline for the student's current knowledge of the subject. It is assumed, that the difference between the pre-test and post-test results reflects the learning that occurred during the semester. Based on the average (mean score) of the correct answers the course monitor would be able to determine the percentage increase (gain) in the understanding of the course material in examined microeconomic sections. The final results will showed how learning of the course material was enhanced in the class during the semester.

Criterion for Success Based on the previous testing results, the target of 75% gain in economic knowledge is assumed for EC 210 general education course. The obtained empirical results will illustrate academic progress at the end of the semester.

Assessment Results / Data Collected

Measurement Three

Means of Assessment

Description of 'Other'
Means of Assessment

Details of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected

Measurement Four

Means of Assessment

Description of 'Other'
Means of Assessment

Details of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected

Measurement Five and Up

For Outcomes with more than four measurements, select means of assessment for measures five and up from the list below (check all that apply). Then list the details for measurements 5 and up in the areas below. Please number them appropriately in each text area, starting with number 5.

Capstone course / senior No
design project

Exam in non-culminating No
course(s)

Rubric-scored artifact in No
non-culminating
course(s)

End of course evaluations No

Focus group/structured No
interviews (students,
faculty)

ERAU Student No
Satisfaction Survey

ERAU Graduating Student No
Survey

ERAU Alumni Survey No

ERAU Employer No
Feedback Survey

National Survey of Student No
Engagement (NSSE)

Incoming Freshmen No
Survey (CIRP)

Other national survey No

External or internal peer review **No**

Retention / graduation rates **No**

Employment placement / continuing education rates **No**

Other (Please specify below) **No**

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion / Criteria for Success

Assessment Results / Data Collected

Improvements

Assessment Outcome Title

Outcome Title **Economic Principles**

Use of Assessment Results

Have assessment results been used to make improvements?

Pedagogical modifications were made **No**

Course sequence was altered **No**

Technology-related changes were made **No**

Personnel-related changes were made **No**

Other **No**

Description of Improvements

Attach File(s) (optional)

Planned Future Improvements

Indicate and describe any planned improvements. If new funds are required for planned improvements, you will also need to complete the next tab, "Mission Critical Budget Request".

Do assessment results indicate any critical improvements that must be made in the next fiscal year?

Description of Planned Improvements

Mission-Critical Budget Request

Assessment Outcome Title

Outcome Title Economic Principles

Mission-Critical Budget Request

Title of Budget Request

Details of Budget Request

Are capital funds required?

Total Amount of Operating Funds Requested

Salaries: \$

Duration:

Benefits: \$

Duration:

Professional Development: \$

Duration:

Computer Hardware: \$

Duration:

Computer Software: \$

Duration:

Other Operating Funds: \$

Duration:

[^ Back to top](#)**⤴ Ethical Responsibility****Select Outcome to Assess from Master List of Outcomes****Instructions:** Below, click the "BROWSE" button to:

- (REQUIRED)** Select an outcome to assess from Master List of Program Outcomes ("BROWSE" -> "Master List of Program Outcomes" -> "GO" button).
- (OPTIONAL)** Align outcome with any other applicable standards such as AABI, ABET, General Education Outcomes: ("BROWSE" -> "Standards" -> "GO" button).

✦ Select Outcome from Master List of Outcomes 05. DB_GENED_PO_05_Ethical Responsibility Recognize the importance of ethical responsibility both professionally and socially.

✦ Assessment Outcome Title Ethical Responsibility

Assessment Measures, Criteria for Success and Results**Measurement One**

Outcome Title Ethical Responsibility

✦ Means of Assessment Capstone course / senior design project

Description of 'Other' Means of Assessment ME 419 Senior Design in Clean Energy Final Project

Details of Assessment Measurement (Timeframe of Data Collection, Participants/Roles, etc.) The course monitor will work with ME 419 instructor to develop a rubric by which the capstone design will be evaluated by the critical design review panel formed by all faculty members teaching capstone design courses in mechanical engineering and professionals with relevant experience. See attachment: [DB_GENED_ETH \[2012-13\] ASMEAS MEAS1 DET.pdf](#)

* Criterion for Success The criterion for success will be 75% of students meet or exceed expectations for the direct assessment.

Assessment Results /
Data Collected

Measurement Two

Means of Assessment

Description of 'Other'
Means of Assessment

Details of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected

Measurement Three

Means of Assessment

Description of 'Other'
Means of Assessment

Details of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected

Measurement Four

Means of Assessment

Description of 'Other'
Means of Assessment

Details of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected

Measurement Five and Up

For Outcomes with more than four measurements, select means of assessment for measures five and up from the list below (check all that apply). Then list the details for measurements 5 and up in the areas below. Please number them appropriately in each text area, starting with number 5.

Capstone course / senior design project No

Exam in non-culminating course(s) No

Rubric-scored artifact in non-culminating course(s) No

End of course evaluations	No
Focus group/structured interviews (students, faculty)	No
ERAU Student Satisfaction Survey	No
ERAU Graduating Student Survey	No
ERAU Alumni Survey	No
ERAU Employer Feedback Survey	No
National Survey of Student Engagement (NSSE)	No
Incoming Freshmen Survey (CIRP)	No
Other national survey	No
External or internal peer review	No
Retention / graduation rates	No
Employment placement / continuing education rates	No
Other (Please specify below)	No
Description of 'Other' Means of Assessment	
Details of Assessment Measurement	
Criterion / Criteria for Success	
Assessment Results / Data Collected	

Improvements

Assessment Outcome Title

Outcome Title Ethical Responsibility

Use of Assessment Results

Have assessment results been used to make improvements?

Pedagogical modifications were made No

Course sequence was altered No

Technology-related changes were made No

Personnel-related changes were made **No**

Other **No**

Description of Improvements

Attach File(s) (optional)

Attachments

Type

[DB_GENED ETH \[2012-13\] ASMEAS MEAS1 DET.pdf](#)

Attachment

Planned Future Improvements

Indicate and describe any planned improvements. If new funds are required for planned improvements, you will also need to complete the next tab, "Mission Critical Budget Request".

Do assessment results indicate any critical improvements that must be made in the next fiscal year?

Description of Planned Improvements

Mission-Critical Budget Request

Assessment Outcome Title

Outcome Title **Ethical Responsibility**

Mission-Critical Budget Request

Title of Budget Request

Details of Budget Request

Are capital funds required?

Total Amount of Operating Funds Requested

Salaries: \$

Duration:

Benefits: \$

Duration:

Professional Development: \$

Duration:

Computer Hardware: \$

Duration:

Computer Software: \$

Duration:

Other Operating Funds: \$

Duration:

Human Experience

Select Outcome to Assess from Master List of Outcomes

Instructions: Below, click the "BROWSE" button to:

- (REQUIRED)** Select an outcome to assess from Master List of Program Outcomes ("BROWSE" -> "Master List of Program Outcomes" -> "GO" button).
- (OPTIONAL)** Align outcome with any other applicable standards such as AABI, ABET, General Education Outcomes: ("BROWSE" -> "Standards" -> "GO" button).

* Select Outcome from Master List of Outcomes 11. DB_GENED_PO_11_Human Experience Recognize the complexity of human experience from a variety of perspectives, for example, cultural, aesthetic, social, technological, scientific, psychological, philosophical, and historical.

* Assessment Outcome Title Human Experience

Assessment Measures, Criteria for Success and Results

Measurement One

Outcome Title Human Experience

* Means of Assessment Other (please specify below)

Description of 'Other' Means of Assessment PS 195Z Joys of Science Pre/Post Test

Details of Assessment Measurement (Timeframe of Data Collection, Participants/Roles, etc.) A multiple-choice pre-test will be administered to all students taking PS 195Z at the beginning of the Fall 2012 semester (in August or early September). This will establish a baseline of existing scientific knowledge for these non-science, non-engineering students. The identical test will be administered to the same group of students at the end of the Fall 2012 semester (in late November or early December), which will assess the students' knowledge gain from the course. See attachment: [DB_GENED HUM \[2012-13\] ASMEAS MEAS1 DET.pdf](#)

* Criterion for Success It is expected that 75% of the students will show at least a 20% improvement in the post-test results. The instructor will examine the results of this pre- and post-test and develop strategies to enhance the teaching of the identified science principles that students found most troublesome.

Assessment Results / Data Collected

Measurement Two

Means of Assessment Other (please specify below)

Description of 'Other' Means of Assessment PS 101 Basic Chemistry Pre/Post Questionnaire/Test

Details of Assessment Measurement Pre-existing knowledge specifically applicable to the learning outcomes in the table will be measured by administration of a preliminary questionnaire (attached as Enclosure 1), given at approximately the end of the first week of classes. This questionnaire includes questions about the students' prior coursework in chemistry; a unit conversion problem that tests the students' existing knowledge of a mathematical method called "dimensional analysis"; and, short answer questions to test existing knowledge about octane and its use as an automotive fuel, and about the chemical effects of exposing skin to ultraviolet light. See attachment: [DB_GENED HUM \[2012-13\] ASMEAS MEAS2 DET.pdf](#)

Criterion for Success The method shown to solve the given problem will be graded for a maximum of ten points. Very few students beginning PS101 have a practical knowledge of dimensional analysis. It is expected that the average score on the graded problem in the preliminary questionnaire will be lower than three points.

Assessment Results / Data Collected

Measurement Three

Means of Assessment

Description of 'Other'
Means of Assessment

Details of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected

Measurement Four

Means of Assessment

Description of 'Other'
Means of Assessment

Details of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected

Measurement Five and Up

For Outcomes with more than four measurements, select means of assessment for measures five and up from the list below (check all that apply). Then list the details for measurements 5 and up in the areas below. Please number them appropriately in each text area, starting with number 5.

Capstone course / senior design project **No**

Exam in non-culminating course(s) **No**

Rubric-scored artifact in non-culminating course(s) **No**

End of course evaluations **No**

Focus group/structured interviews (students, faculty) **No**

ERAU Student Satisfaction Survey **No**

ERAU Graduating Student Survey **No**

ERAU Alumni Survey **No**

ERAU Employer Feedback Survey **No**

National Survey of Student Engagement (NSSE) **No**

Incoming Freshmen Survey (CIRP) **No**

Other national survey **No**

External or internal peer review **No**

Retention / graduation rates **No**

Employment placement / continuing education rates **No**

Other (Please specify below) **No**

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion / Criteria for Success

Assessment Results / Data Collected

Improvements

Assessment Outcome Title

Outcome Title **Human Experience**

Use of Assessment Results

Have assessment results been used to make improvements?

Pedagogical modifications were made **No**

Course sequence was altered **No**

Technology-related changes were made **No**

Personnel-related changes were made **No**

Other **No**

Description of Improvements

Attach File(s) (optional)

Attachments

Type

[DB_GENED HUM \[2012-13\] ASMEAS MEAS1 DET.pdf](#)

Attachment

[DB_GENED HUM \[2012-13\] ASMEAS MEAS2 DET.pdf](#)

Attachment

Planned Future Improvements

Indicate and describe any planned improvements. If new funds are required for planned improvements, you will also need to complete the next tab, "Mission Critical Budget Request".

Do assessment results indicate any critical improvements that must be made in the next fiscal year?

Description of Planned Improvements

Mission-Critical Budget Request

Mission-Critical Budget Request

Assessment Outcome Title

Outcome Title Human Experience

Mission-Critical Budget Request

Title of Budget Request

Details of Budget Request

Are capital funds required?

Total Amount of Operating Funds Requested

Salaries: \$

Duration:

Benefits: \$

Duration:

Professional Development: \$

Duration:

Computer Hardware: \$

Duration:

Computer Software: \$

Duration:

Other Operating Funds: \$

Duration:

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Oral Communication

Select Outcome to Assess from Master List of Outcomes

Instructions: Below, click the "BROWSE" button to:
 1. (REQUIRED) Select an outcome to assess from Master List of Program Outcomes ("BROWSE" -> "Master List of Program Outcomes" -> "GO" button).
 2. (OPTIONAL) Align outcome with any other applicable standards such as AABI, ABET, General Education Outcomes: ("BROWSE" -> "Standards" -> "GO" button).

* Select Outcome from 03. DB_GENED_PO_03_Oral Communication Communicate ideas in non-written form, such as through Master List of Outcomes oral presentations and visual media.

* Assessment Outcome Oral Communication Title

Assessment Measures, Criteria for Success and Results

Measurement One

Outcome Title Oral Communication

* Means of Assessment Other (please specify below)

Description of 'Other' EC 210 Microeconomics Team Project
 Means of Assessment

Means of Assessment

Details of Assessment Measurement (Timeframe of Data Collection, Participants/Roles, etc.) See attachment: [DB_GENED ORAL \[2012-13\] ASMEAS MEAS1 DET.pdf](#)

* Criterion for Success At least 75% of students will achieve a Satisfactory or above on the written report and the Powerpoint presentation.

Assessment Results / Data Collected

Measurement Two

Means of Assessment

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion for Success

Assessment Results / Data Collected

Measurement Three

Means of Assessment

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion for Success

Assessment Results / Data Collected

Measurement Four

Means of Assessment

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion for Success

Assessment Results / Data Collected

Measurement Five and Up

For Outcomes with more than four measurements, select means of assessment for measures five and up from the list below (check all that apply). Then list the details for measurements 5 and up in the areas below. Please number them appropriately in each text area, starting with number 5.

Capstone course / senior design project No

Exam in non-culminating course(s) No

Rubric-scored artifact in non-culminating No

course(s)

End of course evaluations **No**

Focus group/structured interviews (students, faculty) **No**

ERAU Student Satisfaction Survey **No**

ERAU Graduating Student Survey **No**

ERAU Alumni Survey **No**

ERAU Employer Feedback Survey **No**

National Survey of Student Engagement (NSSE) **No**

Incoming Freshmen Survey (CIRP) **No**

Other national survey **No**

External or internal peer review **No**

Retention / graduation rates **No**

Employment placement / continuing education rates **No**

Other (Please specify below) **No**

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion / Criteria for Success

Assessment Results / Data Collected

Improvements

Assessment Outcome Title

Outcome Title Oral Communication

Use of Assessment Results

Have assessment results been used to make improvements?

Pedagogical modifications were made **No**

Course sequence was altered **No**

Technology-related changes were made **No**

Changes were made

Personnel-related changes were made **No**

Other **No**

Description of Improvements

Attach File(s) (optional)

Attachments

Type

[DB_GENED ORAL \[2012-13\] ASMEAS MEAS1 DET.pdf](#)

Attachment

Planned Future Improvements

Indicate and describe any planned improvements. If new funds are required for planned improvements, you will also need to complete the next tab, "Mission Critical Budget Request".

Do assessment results indicate any critical improvements that must be made in the next fiscal year?

Description of Planned Improvements

Mission-Critical Budget Request

Assessment Outcome Title

Outcome Title **Oral Communication**

Mission-Critical Budget Request

Title of Budget Request

Details of Budget Request

Are capital funds required?

Total Amount of Operating Funds Requested

Salaries: \$

Duration:

Benefits: \$

Duration:

Professional Development: \$

Duration:

Computer Hardware: \$

Duration:

Computer Software: \$

Duration:

Other Operating Funds: \$

Duration:

🏠 Research

Select Outcome to Assess from Master List of Outcomes

Instructions: Below, click the "BROWSE" button to:

1. (REQUIRED) Select an outcome to assess from Master List of Program Outcomes ("BROWSE" -> "Master List of Program Outcomes" -> "GO" button).

2. (OPTIONAL) Align outcome with any other applicable standards such as AABI, ABET, General Education Outcomes: ("BROWSE" -> "Standards" -> "GO" button).

✦ Select Outcome from 04. DB_GENED_PO_04_Research Conduct and report research accurately and in accordance with Master List of Outcomes professional standards.

✦ Assessment Outcome Research
Title

Assessment Measures, Criteria for Success and Results

Measurement One

Outcome Title Research

✦ Means of Assessment Other (please specify below)

Description of 'Other' Means of Assessment EC 210 Microeconomics Team Project Assessment

Details of Assessment Measurement (Timeframe of Data Collection, Participants/Roles, etc.) See attachment: [DB_GENED RES \[2012-13\] ASMEAS MEAS1 DET.pdf](#)

✦ Criterion for Success Tested against a faculty-designed rubric, 75% of students will obtain a Satisfactory or better.

Assessment Results / Data Collected

Measurement Two

Means of Assessment

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion for Success

Assessment Results / Data Collected

Measurement Three

Means of Assessment

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion for Success

Assessment Results / Data Collected

Measurement Four

Means of Assessment

Description of 'Other'
Means of AssessmentDetails of Assessment
Measurement

Criterion for Success

Assessment Results /
Data Collected**Measurement Five and Up**

For Outcomes with more than four measurements, select means of assessment for measures five and up from the list below (check all that apply). Then list the details for measurements 5 and up in the areas below. Please number them appropriately in each text area, starting with number 5.

Capstone course / senior No
design projectExam in non-culminating No
course(s)Rubric-scored artifact in No
non-culminating
course(s)

End of course evaluations No

Focus group/structured No
interviews (students,
faculty)ERAU Student No
Satisfaction SurveyERAU Graduating Student No
Survey

ERAU Alumni Survey No

ERAU Employer No
Feedback SurveyNational Survey of Student No
Engagement (NSSE)Incoming Freshmen No
Survey (CIRP)

Other national survey No

External or internal peer No
reviewRetention / graduation No
ratesEmployment placement / No
continuing education
ratesOther (Please specify No
below)Description of 'Other'
Means of Assessment

Details of Assessment

measurement

Criterion / Criteria for Success

Assessment Results / Data Collected

Improvements

Assessment Outcome Title

Outcome Title **Research**

Use of Assessment Results

Have assessment results been used to make improvements?

Pedagogical modifications were made **No**

Course sequence was altered **No**

Technology-related changes were made **No**

Personnel-related changes were made **No**

Other **No**

Description of Improvements

Attach File(s) (optional)	Attachments	Type
	DB_GENED RES [2012-13] ASMEAS MEAS1 DET.pdf	Attachment

Planned Future Improvements

Indicate and describe any planned improvements. If new funds are required for planned improvements, you will also need to complete the next tab, "Mission Critical Budget Request".

Do assessment results indicate any critical improvements that must be made in the next fiscal year?

Description of Planned Improvements

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Scientific Inquiry

Select Outcome to Assess from Master List of Outcomes

Instructions: Below, click the "BROWSE" button to:
 1. (REQUIRED) Select an outcome to assess from Master List of Program Outcomes ("BROWSE" -> "Master List of Program Outcomes" -> "GO" button).
 2. (OPTIONAL) Align outcome with any other applicable standards such as AABI, ABET, General Education Outcomes: ("BROWSE" -> "Standards" -> "GO" button).

 Select Outcome from Master List of Outcomes 06. DB_GENED_PO_06_Scientific Inquiry 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.

✳ Assessment Outcome Scientific Inquiry
Title

Assessment Measures, Criteria for Success and Results

Measurement One

Outcome Title Scientific Inquiry

✳ Means of Assessment Exam in non-culminating course(s)

Description of 'Other' Means of Assessment WX 356 Synoptic Meteorology SLO 6 Direct assessment 1: Students will be provided sample data sets on exam 2 and be asked to diagnose regions of cold and warm thermal advection.

Details of Assessment Measurement (Timeframe of Data Collection, Participants/Roles, etc.) See attachment: [DB_GENED_SCI \[2012-13\] ASMEAS MEAS1 DET.pdf](#)

✳ Criterion for Success SLO 6 Direct assessment 1: The criterion of success for this assessment is that at least 70% of WX356 students assessed will be able to correctly identify areas of warm and cold advection with an accuracy of 75% or better.

Assessment Results /
Data Collected

Measurement Two

Means of Assessment Exam in non-culminating course(s)

Description of 'Other' Means of Assessment SLO 6 Direct assessment 2: Students will be provided sample data sets on the final exam and be asked to diagnose regions of upward and downward vertical motion.

Details of Assessment Measurement

Criterion for Success SLO 6 Direct assessment 2: The criterion of success for this assessment is that at least 70% of WX356 students examined will be able to correctly identify areas of upward and downward vertical motion with an accuracy of 75% or better.

Assessment Results /
Data Collected

Measurement Three

Means of Assessment ERAU Student Satisfaction Survey

Description of 'Other' Means of Assessment SLO 6 Indirect assessment: The following four survey questions will be provided to the students during the final exam. Students may respond with: Strongly Disagree, Disagree, Neither Agree nor Disagree, Agree, or Strongly Agree.

Details of Assessment Measurement

Criterion for Success SLO 6 Indirect assessment: The criterion for success is that at least 75% of the students surveyed will select "Strongly Agree" or "Agree."

Assessment Results /
Data Collected

Measurement Four

Means of Assessment Other (please specify below)

Description of 'Other' Means of Assessment PS 195Z Joys of Science Pre/Post Test

Details of Assessment Measurement A multiple-choice pre-test will be administered to all students taking PS 195Z at the beginning of the Fall 2012 semester (in August or early September). This will establish a baseline of existing scientific knowledge for these non-science, non-engineering students. The identical test will be

administered to the same group of students at the end of the Fall 2012 semester (in late November or early December), which will assess the students' knowledge gain from the course.

Criterion for Success It is expected that 75% of the students will show at least a 20% improvement in the post-test results. The instructor will examine the results of this pre- and post-test and develop strategies to enhance the teaching of the identified science principles that students found most troublesome.

Assessment Results /
Data Collected

Measurement Five and Up

For Outcomes with more than four measurements, select means of assessment for measures five and up from the list below (check all that apply). Then list the details for measurements 5 and up in the areas below. Please number them appropriately in each text area, starting with number 5.

Capstone course / senior design project No

Exam in non-culminating course(s) No

Rubric-scored artifact in non-culminating course(s) No

End of course evaluations No

Focus group/structured interviews (students, faculty) No

ERAU Student Satisfaction Survey No

ERAU Graduating Student Survey No

ERAU Alumni Survey No

ERAU Employer Feedback Survey No

National Survey of Student Engagement (NSSE) No

Incoming Freshmen Survey (CIRP) No

Other national survey No

External or internal peer review No

Retention / graduation rates No

Employment placement / continuing education rates No

Other (Please specify below) No

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion / Criteria for Success

Success

Assessment Results /
Data Collected

Improvements

Assessment Outcome Title

Outcome Title Scientific Inquiry

Use of Assessment Results

Have assessment results been used to make improvements?

Pedagogical modifications were made No

Course sequence was altered No

Technology-related changes were made No

Personnel-related changes were made No

Other No

Description of Improvements

Attach File(s) (optional)	Attachments	Type
	DB_GENED SCI [2012-13] ASMEAS MEAS1 DET.pdf	Attachment

Planned Future Improvements

Indicate and describe any planned improvements. If new funds are required for planned improvements, you will also need to complete the next tab, "Mission Critical Budget Request".

Do assessment results indicate any critical improvements that must be made in the next fiscal year?

Description of Planned Improvements

Mission-Critical Budget Request

Assessment Outcome Title

Outcome Title Scientific Inquiry

Mission-Critical Budget Request

Title of Budget Request

Details of Budget Request

Are capital funds required?

Total Amount of Operating Funds Requested

Salaries: \$

Duration:

Duration:

Benefits: \$

Duration:

Professional Development: \$

Duration:

Computer Hardware: \$

Duration:

Computer Software: \$

Duration:

Other Operating Funds: \$

Duration:

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Written Documents

Select Outcome to Assess from Master List of Outcomes

Instructions: Below, click the "BROWSE" button to:

1. (REQUIRED) Select an outcome to assess from Master List of Program Outcomes ("BROWSE" -> "Master List of Program Outcomes" -> "GO" button).

2. (OPTIONAL) Align outcome with any other applicable standards such as AABI, ABET, General Education Outcomes: ("BROWSE" -> "Standards" -> "GO" button).

* Select Outcome from Master List of Outcomes 02. DB_GENED_PO_02_Written Documents Construct effective written documents for technical and non-technical audiences.

* Assessment Outcome Written Documents
Title

Assessment Measures, Criteria for Success and Results

Measurement One

Outcome Title Written Documents

* Means of Assessment Capstone course / senior design project

Description of 'Other' Means of Assessment HS 490 Senior Project in Homeland Security Written Products Evaluation.

Details of Assessment Measurement (Timeframe of Data Collection, Participants/Roles, etc.) PO2 Direct Assessment 1: The written student products will be graded according to the written criteria provided in the syllabus. PO2 direct assessment 1 will be of the written deliverable to the client. PO2 Direct Assessment 2: The written student products will be graded according to the written criteria provided in the syllabus. PO2 direct assessment 2 will be of the product due to the HS 490 professor.

* Criterion for Success PO2 Direct Assessment 1: The criterion of success for this assessment is at least 75% of HS 490 student group products will be judged as excellent in all four categories of written product assessment rubric. PO2 Direct Assessment 2: The criterion of success for this assessment is at least 75% of HS 490 student group products will be judged as excellent in all four categories of written product assessment rubric.

Assessment Results / Data Collected

Measurement Two

Means of Assessment	ERAU Student Satisfaction Survey
Description of 'Other' Means of Assessment	HS 490 Senior Project in Homeland Security Survey.
Details of Assessment Measurement	PO2 Indirect Assessment: Survey of four questions will be provided to the students at the end of the semester. Students may respond with: Strongly Disagree, Disagree, Neither Agree nor Disagree, Agree, or Strongly Agree in a Likert-type scale. See attachment: DB_GENED WRIT [2012-13] ASMEAS MEAS2 DET.pdf
Criterion for Success	The criterion for success is that at least 75% of the students surveyed will select "Strongly Agree" or "Agree."
Assessment Results / Data Collected	

Measurement Three

Means of Assessment	Capstone course / senior design project
Description of 'Other' Means of Assessment	ME 419 Senior Design in Clean Energy Final Report
Details of Assessment Measurement	The course monitor will work with ME 419 instructor to develop a rubric by which the design report will be evaluated by all faculty members teaching capstone design courses in mechanical engineering.
Criterion for Success	The criterion for success will be 75% of students meet or exceed expectations in the direct assessment.
Assessment Results / Data Collected	

Measurement Four

Means of Assessment	Capstone course / senior design project
Description of 'Other' Means of Assessment	ME 419 Senior Design in Clean Energy Student Survey.
Details of Assessment Measurement	An indirect assessment of PO2 will be implemented through a survey of the students at the completion of the course. All students will be asked to show their opinions on the following two statements with "Strongly Agree", "Agree", "Disagree", or "Strongly Disagree": 1. The ability of constructing effective written documents is important for my profession as an engineer. 2. This course, along with other relevant courses, has prepared me well for constructing effective written documents for technical and non-technical audience.
Criterion for Success	75% response of "Agree" or "Strongly Agree" to all statements in the survey.
Assessment Results / Data Collected	

Measurement Five and Up

For Outcomes with more than four measurements, select means of assessment for measures five and up from the list below (check all that apply). Then list the details for measurements 5 and up in the areas below. Please number them appropriately in each text area, starting with number 5.

Capstone course / senior design project	No
Exam in non-culminating course(s)	No
Rubric-scored artifact in non-culminating course(s)	No
End of course evaluations	No
Focus group/structured	No

Focus group/structured interviews (students, faculty) **No**

ERAU Student Satisfaction Survey **No**

ERAU Graduating Student Survey **No**

ERAU Alumni Survey **No**

ERAU Employer Feedback Survey **No**

National Survey of Student Engagement (NSSE) **No**

Incoming Freshmen Survey (CIRP) **No**

Other national survey **No**

External or internal peer review **No**

Retention / graduation rates **No**

Employment placement / continuing education rates **No**

Other (Please specify below) **No**

Description of 'Other' Means of Assessment

Details of Assessment Measurement

Criterion / Criteria for Success

Assessment Results / Data Collected

Improvements

Assessment Outcome Title

Outcome Title Written Documents

Use of Assessment Results

Have assessment results been used to make improvements?

Pedagogical modifications were made **No**

Course sequence was altered **No**

Technology-related changes were made **No**

Personnel-related changes were made **No**

Other No

Description of Improvements

Attach File(s) (optional)

Attachments

Type

[DB_GENED WRIT \[2012-13\] ASMEAS MEAS2 DET.pdf](#)

Attachment

Planned Future Improvements

Indicate and describe any planned improvements. If new funds are required for planned improvements, you will also need to complete the next tab, "Mission Critical Budget Request".

Do assessment results indicate any critical improvements that must be made in the next fiscal year?

Description of Planned Improvements

Mission-Critical Budget Request

Assessment Outcome Title

Outcome Title Written Documents

Mission-Critical Budget Request

Title of Budget Request

Details of Budget Request

Are capital funds required?

Total Amount of Operating Funds Requested

Salaries: \$

Duration:

Benefits: \$

Duration:

Professional Development: \$

Duration:

Computer Hardware: \$

Duration:

Computer Software: \$

Duration:

Other Operating Funds: \$

Duration:

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