

Standing Requirements

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.

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

Select all that apply.

- 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

Standing Requirements

Program Outcomes

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

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) 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)	Embry-Riddle General Education Competency Set:

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

Cultural Literacy (DB, PC, WW)

Collaborative Learning (DB, PC, WW)

The student will be able to work effectively with others on diverse teams to produce quality written documents, oral presentations and/or meaningful projects. The student will assist in organizing others to accomplish a shared task, contribute actively to a group, and work to resolve any conflicts that occur.

No Mapping

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PC_General Education program**Prescott General Education Program Map**

Courses and Activities Mapped to FL - Embry-Riddle General Education Competency Set (Copy 1)

	General Education Competencies						
	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) 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.	Communication (DB, PC, WW) The student will communicate concepts in written, digital and oral forms to present technical and non-technical information.	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.	Collaborative Learning (DB,PC, WW) The student will be able to work effectively with others on diverse teams to produce quality written documents, oral presentations and/or meaningful projects. The student will assist in organizing others to accomplish a shared task, contribute actively to a group, and work to resolve any conflicts that occur.
Communication Theory and Skills							
COM 122 English Composition	I		I	I	I		
COM 219 Speech	I		I	P		I	I
COM 221 Technical Report Writing	I		I	P		I	I
COM 222 Business Communication	I		I	P		I	I
COM 223 Intelligence Writing	P		P	P		P	I
Humanities/Social Sciences							
HU 144 Studies in Art	I		I	I	I	I	I
HU 145 Themes in Humanities	I		I	I	I	I	I
HU 146 Music Appreciation and Criticism	I		I	I	I	I	I
Lower-Level Social Sciences							
EC 200 Economic Survey	I	I		I	I	P	I
EC 210 Microeconomics	P	I		I	I	I	I
EC 211 Macroeconomics	P	I		P	I	P	P
EC 225 Engineering Economics	P	M		P	P	P	I
PSY 101 Introduction to Psychology	I			I	I	I	I
PSY 222 Introduction to Industrial/Organizational Psychology	I	I	I	P	I	I	
PSY 226 Statistics for Organizational Analysis & Research	I	P	I	P	P	I	
SS 110 World History	I	I	P	I	I	P	
SS 204 Introduction to Geography	I	I	I	I	I	P	
SS 210 Introduction to Sociology	I		I	I	I	I	I
SS 260 Cultural Anthropology	I		I	I	I	P	
SS 290 History of Modern Europe	I		I	I		P	

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Upper-Level Humanities							
HU 325 Exploring Film	P		P	P		P	
HU 330 Values and Ethics	P	P	P	P	P	P	P
HU 335 Technology and Modern Civilization	P		P	P	P	P	P
HU 355 Creative Writing	P			P		P	P
HU 420 Applied Cross-Cultural Communication	P		P	P		P	P
RS 306 Studies in Middle Eastern History and Culture	P		P	P	P	P	
RS 307 Islam and Arabic Culture	P	P	P	P		P	P
RS 310 Modern Middle East in World Affairs	P	P	P	I		P	P
Upper-Level Social Sciences							
EC 315 Managerial Economics	P	P		P	P	I	P
EC 317 Global Economics, Politics and Culture	P	I	P	I	P	M	P
PSY 306 Deceptions	P		P	P	P	I	I
PSY 350 Social Psychology	P		P	P	P	P	P
SS 311 U.S Military History 1775-1900	I		P	I		P	
SS 321 U.S. Military History 1900-Present	I		P	I		P	
SS 326 Russian-U.S. Relations	P		P	P	P	P	
SS 360 Environmental Law	P	I	I	I	I	P	I
SS 410 International human Rights	P	I	I	P	I	I	I
Computer Science/Information Technology							
BA 222 Business Computer Applications	P	P	I	I			P
CS 118 Fundamentals of Computer Programming	I	I		I			
CS 125 Computer Science I	I	I		I			
EGR 115 Introduction to Computing for Engineers	I	I					
IT 109 Introduction to Computers and Applications	I	I	I	I			
Mathematics							
MA 111 College Mathematics for Aviation I	I	I	I	I	I		

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MA 112 College Mathematics for Aviation II	I	I	I	I	I		
MA 120 Quantitative Methods I	I	I					
MA 143 Precalculus Essentials	I	I					
MA 222 Business Statistics	I	I	I		I		
MA 241 Calculus and Analytical Geometry I	I	I		I			
Physical Sciences							
BIO 104 Foundations of Biology I	I	I	I	I	I		I
BIO 313 Riparian Ecology	I		I	I	P		
CHM 105 General Chemistry	I	I	I	I	I		I
PS 113 Introductory Physics I	I	I	I	I	I		I
PS 114 Introductory Physics II	I	I	I	I	I		
PS 150 Physics for Engineers I	I	I					
PS 160 Physics for Engineers II	I	I	I	I	I		
WX 201 Survey of Meteorology	I	I	I	I	I		I
Legend : I Introduced P Practiced M Mastered							

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PC Gen Ed Program Outcomes 2018 Onward

Courses and Activities Mapped to FL - Embry-Riddle General Education Competency Set (Copy 1)

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Courses and Learning Activities							
2018-2019 Assessment Cycle		✓	✓	✓			
2019-2020 Assessment Cycle	✓				✓	✓	✓
2020-2021 Assessment Cycle		✓	✓	✓			
2021-2022 Assessment Cycle	✓				✓	✓	✓
2022-2023 Assessment Cycle		✓	✓	✓			
Legend : ✓ = Aligned							

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2019-2020 Assessment Cycle

Assessment Plan with Results and Proposed Improvements

Result per Measure

PC_Gen_Ed Program Outcomes

Outcome

Outcome: Critical Thinking

The student will apply knowledge at the synthesis level to define and solve problems within professional and personal environments.

▼ Measure: Critical Thinking -- EGR 115 *Course level Direct - Other*

Details/Description:	The General Education Committee will review final grade data from EGR 115 for AY 2019-2020.
Criterion for Success:	70% of students will achieve a final grade of C or higher.
Timeframe of Data Collection:	AY 2019-2020
Key/Responsible Personnel:	Lisa Davis and Brent Solie

Results for Critical Thinking -- EGR 115

Summary of Results:	Of 336 students taking EGR 115 in in AY 2019-2020: 141 (42.0%) earned an A, 79 (23.5%) earned a B, and 55 (16.4%) earned a C. Collectively, 81.8% of EGR 115 students earned a C or higher.
Results :	Attainment level: Criterion for Success (not met/ met/ exceeded): Exceeded

Sample Size/ Number of Students Assessed: 336

Completed or Proposed Improvements (Proposals require Improvement Action Plan):

▼ **Measure:** Critical Thinking -- RGSS Survey Item
Institution level Indirect - Survey

Details/Description:	The General Education Committee will review student responses to the Critical Thinking questions on the 2019-2020 Residential Graduating Student Survey.
Criterion for Success:	70% or more of students surveyed will respond "Stronger" or "Much Stronger" to the item asking how their critical thinking skills have improved since starting at ERAU, and 70% or more of students surveyed will respond "Quite a Bit" or "Very Much" to the item asking how ERAU has contributed to the development of their critical thinking skills.
Timeframe of Data Collection:	AY 2019-2020
Key/Responsible Personnel:	Lisa Davis and Brent Solie

Results for Critical Thinking -- RGSS Survey Item

Summary of Results:	<p>When asked to compare their critical thinking to their first year, at graduation, 34.5% of students say they are much stronger at critical thinking and 56.3% say they are stronger.</p> <p>A total of 90.8% of students say they are stronger or much stronger in terms of critical thinking compared to their first year</p>
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at ERAU PC.

When asked to rate ERAU PC's contribution to their critical thinking skills, 31.4% of students say ERAU PC contributed very much and 41.5% say it contributed quite a bit.

A total of 72.9% of students say ERAU PC contributed very much or quite a bit to their critical thinking skills.

Results :

Attainment level: Criterion for Success (not met/ met/ exceeded): Met

Sample Size/ Number of
Students Assessed:

412
395

Completed or Proposed
Improvements (Proposals
require Improvement
Action Plan):

Outcome: Scientific Literacy

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

▼ **Measure:** Scientific Literacy -- PS 113 Final Grades *Course level Direct - Other*

Details/Description:

The General Education Committee will review final grade data from PS 113 for AY 2019-2020.

Criterion for Success:

70% of students will achieve a final grade of C or higher.

Timeframe of Data
Collection:

AY 2019-2020

Key/Responsible
Personnel:

Lisa Davis and Brent Solie

Results for Scientific Literacy -- PS 113 Final Grades

Summary of Results:

Of students taking PS 113 in AY 2019-2020:
111 (39.9%) earned an A,
52 (18.7%) earned a B, and
25 (9.0%) earned a C.

In total, 67.6% of students in PA 113 earned
a C or higher.

We note that since a Pass/Fail option was
implemented due to COVID-19, there were
an additional 63 (22.7%) of students who also
earned a grade of P.

If we look only at students earning a
traditional letter grade
(of which there were 215), we see that 88.3%
of PS 113 students earning a letter grade
earned a C or higher.

As students earning a grade at least 60% but
below 70% (the D range) would qualify for a
Pass grade under the administration's
COVID-19 policy, it is not possible to
determine the true fraction of students
performing at a C level.

I am marking this as meeting the criteria as it
is likely that at least 7 of the 63 P students
would have earned a C or higher.

Results :

Attainment level: Criterion for Success (not
met/ met/ exceeded): Met

Sample Size/ Number of
Students Assessed:

278
215

Completed or Proposed
Improvements (Proposals
require Improvement
Action Plan):

▼ **Measure:** Scientific Literacy -- RSGG Survey Item
Institution level Indirect - Survey

Details/Description:	The General Education Committee will review student responses to the Scientific Literacy questions on the 2019-2020 Residential Graduating Student Survey.
Criterion for Success:	70% or more of students surveyed will respond "Stronger" or "Much Stronger" to the item asking how their scientific literacy skills have improved since starting at ERAU, and 70% or more of students surveyed will respond "Quite a Bit" or "Very Much" to the item asking how ERAU has contributed to the development of their scientific literacy skills.
Timeframe of Data Collection:	AY 2019-2020
Key/Responsible Personnel:	Lisa Davis and Brent Solie

Results for Scientific Literacy -- RSGG Survey Item

Summary of Results:	<p>When asked to compare their scientific literacy to their first year, at graduation, 29.4% of students say they are much stronger at scientific literacy and 51.3% say they are stronger. A total of 80.7% of students say they are stronger or much stronger in terms of scientific literacy compared to their first year at ERAU PC.</p> <p>When asked to rate ERAU PC's contribution to their scientific literacy skills, 24.9% of students say ERAU PC contributed very much and 36.6% say it contributed quite a bit.</p>
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Results :

A total of 61.5% of students say ERAU PC contributed very much or quite a bit to their scientific literacy skills.

Attainment level: Criterion for Success (not met/ met/ exceeded): Not Met

Sample Size/ Number of Students Assessed:

411
393

Completed or Proposed Improvements (Proposals require Improvement Action Plan):

Outcome: Cultural Literacy

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

▼ **Measure:** Cultural Literacy -- RGSS Survey Item *Institution level Indirect - Survey*

Details/Description:

The General Education Committee will review student responses to the Cultural Literacy questions on the 2019-2020 Residential Graduating Student Survey.

Criterion for Success:

70% or more of students surveyed will respond "Stronger" or "Much Stronger" to the item asking how their cultural literacy skills have improved since starting at ERAU, and 70% or more of students surveyed will respond "Quite a Bit" or "Very Much" to the item asking how ERAU has contributed to the development of their cultural literacy skills.

Timeframe of Data

AY 2019-2020

Collection:

Key/Responsible

Lisa Davis and Brent Solie

Personnel:

Results for Cultural Literacy -- RGSS Survey Item

Summary of Results:

When asked to compare their cultural literacy to their first year, at graduation, 22.3% of students say they are much stronger at cultural literacy and 40.5% say they are stronger.
A total of 62.8% of students say they are stronger or much stronger in terms of cultural literacy compared to their first year at ERAU PC.

When asked to rate ERAU PC's contribution to their cultural literacy skills, 19.8% of students say ERAU PC contributed very much and 24.4% say it contributed quite a bit.
A total of 44.2% of students say ERAU PC contributed very much or quite a bit to their cultural literacy skills.

Results :

Attainment level: Criterion for Success (not met/ met/ exceeded): Not Met

Sample Size/ Number of
Students Assessed:

412
394

Completed or Proposed
Improvements (Proposals
require Improvement
Action Plan):

▼ **Measure:** Cultural Literacy -- SS 204 Final Grades
Course level Direct - Other

Details/Description:

The General Education Committee will review final

	grade data from SS 204 for AY 2019-2020.
Criterion for Success:	70% of students will achieve a final grade of C or higher.
Timeframe of Data Collection:	AY 2019-2020
Key/Responsible Personnel:	Lisa Davis and Brent Solie

Results for Cultural Literacy -- SS 204 Final Grades

Summary of Results: Of the 84 students taking SS 204 in AY 2019-2020:
23 (27.4%) earned an A,
25 (29.8%) earned a B, and
16 (19.0%) earned a C.

In total, 76.2% of SS 204 students earned a C or higher.

Results : Attainment level: Criterion for Success (not met/ met/ exceeded): Met

Sample Size/ Number of Students Assessed: 84

Completed or Proposed Improvements (Proposals require Improvement Action Plan):

Outcome: Collaborative Learning

The student will be able to work effectively with others on diverse teams to produce quality written documents, oral presentations and/or meaningful projects. The student will assist in organizing others to accomplish a shared task, contribute actively to a group, and work to resolve any conflicts that occur.

▼ **Measure:** Collaborative Learning -- PS 113L Final Grades

Course level Direct - Other

Details/Description:	The General Education Committee will review final grade data from PS 113L for AY 2019-2020.
Criterion for Success:	70% of students will achieve a final grade of C or higher.
Timeframe of Data Collection:	AY 2019-2020
Key/Responsible Personnel:	Lisa Davis and Brent Solie

Results for Collaborative Learning -- PS 113L Final Grades

Summary of Results: Of the 9 students taking PS 113L in AY 2019-2020:
1 (11.1%) earned an A,
0 (0.0%) earned a B, and
2 (22.2%) earned a C.

In total, 33.3% of students taking PS 113L earned a C or higher.

We remark that under the administration's COVID-19 policy, 3 (33.3%) of students received a grade of P, which may or may not correspond to work at the level of C or better.

Results : Attainment level: Criterion for Success (not met/ met/ exceeded): Not Met

Sample Size/ Number of Students Assessed: 9
Completed or Proposed Improvements (Proposals require Improvement Action Plan):

▼ **Measure:** Collaborative Learning -- RGSS Survey Item
Institution level Indirect - Survey

Details/Description:	The General Education Committee will review student responses to the Collaborative Learning questions on the 2019-2020 Residential Graduating Student Survey.
Criterion for Success:	70% or more of students surveyed will respond "Stronger" or "Much Stronger" to the item asking how their collaborative learning skills have improved since starting at ERAU, and 70% or more of students surveyed will respond "Quite a Bit" or "Very Much" to the item asking how ERAU has contributed to the development of their collaborative learning skills.
Timeframe of Data Collection:	AY 2019-2020
Key/Responsible Personnel:	Lisa Davis and Brent Solie

Results for Collaborative Learning -- RGSS Survey Item

Summary of Results:	<p>When asked to compare their collaborative learning skills to their first year, at graduation, 38.0% of students say they are much stronger at collaborative learning and 46.7% say they are stronger. A total of 84.7% of students say they are stronger or much stronger in terms of collaborative learning compared to their first year at ERAU PC.</p> <p>When asked to rate ERAU PC's contribution to their collaborative learning skills, 34.1% of students say ERAU PC contributed very much and 38.1% say it contributed quite a bit. A total of 72.2% of students say ERAU PC contributed very much or quite a bit to their collaborative learning skills.</p>
Results :	Attainment level: Criterion for Success (not met/ met/ exceeded): Met

Sample Size/ Number of	413
Students Assessed:	396

Completed or Proposed
Improvements (Proposals
require Improvement
Action Plan):

Overall Reflection

No text specified

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