

Standing Requirements

Program Mission Statement

General Education Program Mission

Recognizing its general and special missions in education, Embry-Riddle Aeronautical University embraces a General Education Program. This course of study ensures that students possess the attributes expected of all university graduates. The General Education Program enables students, regardless of their degree program, to understand the significance of acquiring a broad range of knowledge.

Throughout the General Education Program, students gain and enhance competence in written and oral communication. They practice reasoning and critical thinking skills and demonstrate computer proficiency. As students engage in this course of study, they familiarize themselves with and investigate ideas and methodologies from several disciplines. These include the arts and humanities, the social sciences, economics, the natural sciences and mathematics. The program also helps students recognize interrelationships among the disciplines.

Promoting the appreciation of varied perspectives, the General Education Program provides intellectual stimulation, ensuring that students are broadly educated. This course of study empowers students to make informed value judgments, to expand their knowledge and understanding of themselves, and to lead meaningful, responsible, and satisfying lives as individuals, professionals, and concerned members of their society and the world. Over 4500 students are enrolled in the General Education Program at Daytona Beach.

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 environment³ emphasizes learning through collaboration and teamwork,⁴ concern for ethical and responsible behavior,⁵ cultivation of analytical⁶ and management abilities,⁷ and a focus on the development of the professional skills needed for participation in a global community.⁸ We believe a vibrant future for aviation and aerospace rests in the success of our students. Toward this end, Embry-Riddle is committed to providing a climate that facilitates the highest standards of academic achievement⁹ and knowledge discovery,¹⁰ in an interpersonal environment that supports the unique needs of each individual.¹¹ Embry-Riddle Aeronautical University is the world's leader in aviation and aerospace education. The University is an independent, non-profit, culturally diverse institution providing quality education and research in aviation, aerospace, engineering and related fields leading to associate's, baccalaureate's, master's and doctoral degrees.

Program Alignment to University Mission

Program Alignment to University Mission

Select all that apply.

¹Preparing students for productive careers

²Preparing students for leadership roles in service around the world

³Technologically enriched environment

⁴Emphasize learning through collaboration and teamwork

⁵Concern for ethical and responsible behavior

⁶Cultivate analytical abilities

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

⁹Facilitating the highest standards of academic achievement

¹⁰Facilitating knowledge discovery

Program Outcomes

DB_Gen_Ed Program Outcomes

Outcome

Outcome	Mapping
PO_01	Embry-Riddle General Education Competency Set: Critical Thinking (DB, PC, WW), Quantitative Reasoning (DB, PC, WW)

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

PO_02

Construct effective written documents for technical and non-technical audiences.

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

PO_03

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

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

PO_04

Conduct and report research accurately and in accordance with professional standards.

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

PO_05

Recognize the importance of ethical responsibility both professionally and socially.

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

PO_06

Identify some of the important results of scientific inquiry in the physical and natural sciences, and use scientific information in critical thinking and decision-making.

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

PO_07

Use technology to organize and manipulate information to communicate ideas and concepts.

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

PO_08

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

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

PO_09

Demonstrate an awareness and understanding of the values communicated through the humanities.

Embry-Riddle General Education

Competency Set: Critical Thinking (DB, PC, WW), Cultural Literacy (DB, PC, WW)

PO_10

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

Embry-Riddle General Education

Competency Set: Cultural Literacy (DB, PC, WW)

PO_11

Recognize the complexity of human experience from a variety of perspectives, for example, cultural, aesthetic, social, technological, scientific, psychological, philosophical, and historical.

Embry-Riddle General Education

Competency Set: Critical Thinking (DB, PC, WW), Cultural Literacy (DB, PC, WW)

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)	Embry-Riddle General Education Competency Set: 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.

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

Communication (DB, PC, WW)

The student will communicate concepts in written, digital and oral forms to present technical and non-technical information.

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

Scientific Literacy (DB, PC, WW)

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

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

Cultural Literacy (DB, PC, WW)

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

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

Curriculum Map

Mapping Matrix ?

DB General Education Curriculum Map

[Print View] [PDF]

Alignment Set: DB_Gen_Ed Program Outcomes

Created: 08/07/2014 7:52:47 am EDT

Last Modified: 08/11/2014 2:13:37 pm EDT

DB General Education Curriculum Map

Courses and Activities Mapped to DB_Gen_Ed Program Outcomes

Show Outcome Descriptions Show Course/Activity Detail

	Outcome									
	PO_01 Apply knowledge of college-level mathematics for solving and solving problems.	PO_02 Conduct effective written documents for technical and non-technical audiences.	PO_03 Communicate clear, concise written forms, such as through oral presentations and social media.	PO_04 Develop and apply research, analysis and to synthesize with professional standards.	PO_05 Recognize the importance of ethical responsibility (both personally and socially).	PO_06 Identify some of the important fields of scientific study in the physical and natural sciences, and use scientific information in critical thinking and decision-making.	PO_07 Use technology to organize and retrieve information to communicate ideas and concepts.	PO_08 Apply abstract principles to identify, formulate, and solve problems.	PO_09 Recognize an, boundaries and understanding of the value communicated through the Humanities.	PO_10 Recognize some of the historical and contemporary issues that affect society.
Aerospace Electronics										
AEI_210 Linear Systems and Signals Analysis	P									
AEI_216 Elements of Engineering Design and Laboratory Procedures		P	P	P	P	P	P	P		
AEI_321 Advanced Communications Systems Analysis	P						P			
AEI_322 Advanced Communications, Microwave and Control Laboratory Systems Analysis		P	P	P	P	P	P	P		
AEI_323 Applied Control Systems Analysis	P			P	P	P				
AEI_324 Microwave and Radar System Analysis	P									
AEI_411 Communications and Navigation Systems			P	P	P					
AEI_412 Surveillance and Control Systems		P	P		P	P				
AEI_413 Satellite Communications and Navigation Systems		P	P	P	P	P	P			
AEI_414 System Test Evaluation Laboratory		P					P			
AEI_421 Advanced Electronic System Integration and Design		M	M	M	M	M	M			
AEI_422 Integrated Logistics Support	M	M	M	M	M	M	M	M		
AEI_423 Test System Development Laboratory		M	M	M	M	M	M			
AEI_424 Senior Project		M	M	M	M	M	M	M	M	M
Air Traffic Management										
AT_202 Air Traffic Management I	I									
AT_203 Air Traffic Management II	I					I				
AT_305 Air Traffic Management III	P					P		P		
AT_313 VFR Tower	P					P		P		
AT_401 Air Traffic Management IV	P					P		P		
AT_402 Air Traffic Management V	M					M		M		
AT_403 Multi-Phase Air Traffic Control	P					P		P		

Computer Engineering											
CEC 220 Digital Circuit Design										P	
CEC 222 Digital Circuit Laboratory	P	P									
CEC 300 Computing in Analog and Digital	P	P	P						P		I
CEC 315 Signals and Systems	P								P		
CEC 320 Microprocessor Systems	P								P		
CEC 322 Microprocessor Systems Laboratory	P	P							P		
CEC 330 Digital Systems Design with Analogous Applications	P								P		
CEC 410 Digital Signal Processing	P								P		
CEC 411 Digital Signal Processing Laboratory	P								P		
CEC 420 Computer Systems Design	M	M	M	M	P				M	P	P
CEC 421 Computer Systems Design II	M	M	M	M	P				M	P	P
CEC 440 Autonomous Vehicle Design	P								P		
CEC 450 Real-Time Systems	P	P				I			P		
CEC 460 Telecommunications Systems	P								P		
CEC 470 Computer Architecture	P								P		

Civil Engineering											
CIV 204 Structural Analysis	P	I	I	P						P	P
CIV 210 Hydraulics	P										
CIV 240 Construction Engineering	P	I	I								
CIV 260 Engineering and Construction Operations in Space	P	I	I				P				
CIV 370 Computational Methods in Civil Engineering	P									P	
CIV 431 Reinforced Concrete Design	M										
CIV 432 Structural Steel Design	M										
CIV 480 Senior Design Project	P				P					P	I
CIV 490 The Civil Engineering Profession		I	I								P

Communication												
COM 008 Academic English for non- Native Speakers of English			I								I	I
COM 010 Advanced Academic English for non-Native Speakers of English			I								I	I
COM 020 Fundamentals of Communication			I								I	I
COM 122 English Composition and Literature			I			I					I	I
COM 210 Speech				I		P				I		
COM 221 Technical Report Writing			I			P				I	P	
COM 222 Business Communication			I			P				I	P	
COM 229 Science and Technology Communication			P			P				I	P	P
COM 230 Digital Photography						P				I		I
COM 240 Introduction to Media			P			P				I	P	P
COM 245 Introduction to News Writing			P			P				P		
COM 250 Sports Writing			P			P				I	I	I
COM 320 Mass Communication Law and Ethics			P			P				M		
COM 330 Audition and Analytical Communication			P			P				P		M
COM 335 Environmental Communication			P			P				P		P
COM 360 Media Relations			P			P				P		P
COM 364 Visual Design			P			P				P		P
COM 410 Advanced Professional Writing			M			M				M		
COM 411 Web Design Workshop			P			P				P		
COM 412 Advanced Technical Writing			M			M				N		P
COM 415 Non-Verbal Communication			P			M				M		M
COM 460 Media Relations II			P			M				M		M

Computer Science											
CS 118	P									P	
CS 222	P									P	
CS 225	P	P								P	
CS 303	P									P	
CS 310	P									P	
CS 317	P									P	
CS 332	P									P	
CS 335	P									P	
CS 344	P									P	
CS 360	P									P	
CS 420	P									P	
CS 480	P		P		I	I				P	
CS 480		M			P					M	P

Economics											
EC 200	I		P							P	P
EC 210					P				P		P
EC 311	I		P						P		P
EC 225	P				P				I		
EC 310	P								P		P
EC 420					P				P		P

Electrical Engineering											
EE 222	I									I	
EE 224			I								
EE 300	P										
EE 301			P								
EE 302	P									P	
EE 304			P								
EE 307	M				M					M	
EE 308	M										
EE 310	M				M					M	
EE 320	P									I	
EE 330			P								
EE 340	P	P			P					P	
EE 421	M									P	
EE 422	M	P			P					P	
EE 417	M										
EE 423	M	M	M		M	M	M		M	M	P
EE 424	M	M	M		M	M	M		M	M	P
EE 430	M	M			M				M	P	
EE 430	M	M			M				M		

Engineering											
ENR 101	I	I	P			P	I	I	I	I	I
ENR 102	P	P				I	P	P	I		

Honors											
HON 100 Honors Seminar I	I	I	I	I	I	I	I	I	I	I	I
HON 200 Honors Seminar II	P	P	P	P	P	I	P	P	P	P	P
HON 300 Honors Seminar III	M	M	M	M	P	P	P	P	P	P	M
Homeland Security											
HS 100 Introduction to Homeland Security					I					I	I
HS 210 Fundamentals of Transportation Security		P	P								
HS 215 Introduction to Industrial Security			P	P							
HS 300 Terrorist: Origins, Ideologies, and Goals									I		I
HS 305 Business Skills for the Homeland Security Professional					P						
HS 310 Fundamentals of Emergency Management		P	P	P				P			P
HS 315 Critical Infrastructure and Risk Analysis	P	P	P	P				P			P
HS 320 Homeland Security Law and Policy									I		P
HS 370 Emergency Management Strategy & Policy		P									
HS 380 Asymmetric Terrorism: Cultural, Technological, and Innovation		P									
HS 385 Homeland Security Technology and Systems		P					P				
HS 400 Emerging Issues in Homeland Security				P						P	
HS 410 Exercise Design and Evaluation of Homeland Security		P									
HS 420 Counter-Terrorism Strategy and Policy		P	P	P							
HS 430 Environmental Security							P			P	
HS 490 Senior Project in Homeland Security	M	M	M	M	P				M		M
Humanities											
HU 100 Western Humanities I: Antiquity and the Middle Ages		P		P						I	P
HU 101 Western Humanities II: Renaissance to Postmodern		P		P						I	P
HU 102 Studies in Literature		P		P						I	P
HU 103 Introduction to Rhetoric		P		P						I	P
HU 104 Studies in Art		P		P						I	P
HU 105 Themes in the Humanities		P		P						I	P
HU 106 Music Appreciation and Creation		P		P						I	P
HU 300 World Literature		P		P						P	P
HU 302 Contemporary Issues in Science		P	P	P	P	P				P	M
HU 305 Modern Literature		P		P						P	P
HU 310 American Literature		P		P						P	P
HU 315 Studies in Music		P	P	P						P	P
HU 318 Advanced Lecture			M		P					P	
HU 325 Exploring Film		P								P	P
HU 330 Values and Ethics	M		P	P	P	P	P			P	P
HU 335 Technology and Modern Civilization		P		P	P	P				P	P
HU 338 Translating the Borders: Interdisciplinary Explorations		P	P	P						P	P
HU 341 World Photography		P	M	M	P	P				P	P
HU 343 Comparative Religions		P		M	P					P	M
HU 350 Creative Writing		P		M						P	M
HU 375 The Nature of Language		P	P	P	P					M	M
HU 415 Non-Verbal Communication	P	M	M	M						P	M
HU 420 Applied Cross-Cultural Communication		M	P	M						P	M
HU 475 Senior Thesis		M	M	M	M						M

Mechanical Engineering										
ME 303 Vehicle Dynamics	M	P					M	M		
ME 304 Introduction to Machine Design	P									
ME 305 Machine Design Laboratory	P									
ME 306 Robotic Mechanisms	P	P				P	P			
ME 405 Vibration & Acoustics	P	P								
ME 401 Advanced Fluid Dynamics	P	P								
ME 402 Robotic Arms	M						M	M		
ME 404 Mechatronics	M	P	P	P			M	M		
ME 405 Vehicle Power Systems	M	P					M	M		
ME 407 Preliminary Design of Robotic Systems with Laboratory	M	M	M	M	P		M	M	P	
ME 409 Vehicle Aerodynamics	M	M	P	P			M	M		
ME 410 Advanced Machine Design	P	P	P	P			P	P		
ME 413 Preliminary Design of High Performance Vehicles with Laboratory	M	M								
ME 422 Senior Design of High Performance Vehicles	M	M	M	M	M		M	M	M	
ME 427 Senior Design of Robotic Systems	M	M	M	M	M		M	M	M	

Physical Science										
PS 101 Basic Chemistry	P						P			P
PS 101L Basic Chemistry Laboratory				I			P	I		
PS 103 Technical Physics I	I						I		I	I
PS 103L Technical Physics I Laboratory		P		P			P			
PS 104 Technical Physics II	P						P		P	P
PS 104L Technical Physics II Laboratory		P		P			P			
PS 105 General Chemistry I	P			I			P		P	P
PS 105L General Chemistry I Laboratory				P				P		
PS 107 Elements of Biological Science	P	P	P				P	P	P	P
PS 107L Biological Science Laboratory				P				P		
PS 142 Chemistry for Engineers					P		P	P		
PS 141 Chemistry for Engineers Laboratory							P	P		
PS 142 Introduction to Environmental Science	P	P	P	P			P	P	P	P
PS 190 Physics for Engineers I					I		I			
PS 190L Physics for Engineers I Laboratory	P	P			P		P	P	P	P
PS 200 Physics II	P	P			P		P	P	P	P
PS 210 Physics II Laboratory										
PS 211 Physics I	P				I		I		P	P
PS 214 Physics I Laboratory		P			P		P			
PS 216 Physics II							P	I		P
PS 200 Physics II Laboratory		P			P		P			
PS 230 Physics III for Engineers							P	I		P
PS 252 Physics Laboratory for Engineers		P			P		P			
PS 290 Physics Laboratory Practicum					P		P			
PS 301 Astronomy							P			P
PS 302 Evolution of Scientific Thought	P	P					I	M	M	M
PS 303 Modern Physics		P			P		P		P	P
PS 305 Modern Physics Laboratory		P			P		P			
PS 320 Classical Mechanics		P		M	P		M	P	P	P
PS 401 Senior Physics Laboratory		M		P				P		
PS 401 Astronomy		P	P	P			M	P		
PS 402 Atomic/Nuclear Physics		P	P				M	I		
PS 403 Astrophysics I		P	P	P			M	P		

Psychology											
PSY 101	Introduction to Psychology										I
PSY 210	Sensation and Perception										P
PSY 212	Research Analysis in Psychology										P
PSY 210	Cognitive Psychology										P
PSY 320	Attention Psychology										P
PSY 322	Research Design										M
PSY 330	Physiological Psychology										P
PSY 340	Industrial/Organizational Psychology										P
PSY 345	Training and Development										P
PSY 390	Social Psychology										P
PSY 395	Abnormal Psychology										P

Software Engineering											
SE 300	Software Engineering Practices	P	P	P		P		P	P		
SE 310	Analysis and Design of Software Systems		P					P			
SE 320	Software Construction		P					P			
SE 410	Formal Software Modeling	P	P					P			
SE 420	Software Quality Assurance	P	P	P				P			
SE 430	Software Team Project I										
SE 431	Software Team Project II										

Safety Science											
SP 201	Introduction to Health, Organizational, and Transportation Safety				I	I		I	I		I
SP 210	Introduction to Aerospace Safety			I	I	I		I			I
SP 310	Environmental Compliance and Safety		I	P				P			
SP 310	Worksite Compensation, Insurance, and Risk Management		P								
SP 320	Human Factors in Aviation Safety										P
SP 330	Aircraft Accident Investigation		P	M	I	P	I	P		I	I
SP 331	Performance and Error/Factors in Aviation Safety		I		I	P	I		I	I	I
SP 340	Safety Program Management		M	M		P	I	P	P	I	I
SP 350	General Case and Emergency Management		I						I		I
SP 360	Industrial Hygiene and Toxicology		P				I		P		
SP 370	Propulsion Plant Investigation		P	I					P		P
SP 400	Applications in Industrial Hygiene			M	M			P			M
SP 410	Design of Engineering Hazard Controls		P	P	P	P	I	P			P
SP 420	Analysis of Observational Data			P	P	P		P			P
SP 430	Aircraft Crash Survival Analysis and Design		M	M	I	P		M	P	P	I
SP 440	Design of Engineering Hazard Controls I		P								P
SP 450	System Safety in Aviation			P	M			M		M	
SP 460	Health, Safety, and Aviation Law		P	P	P	P					P
SP 490	Selected Topics in Aviation Safety		M		M						

Social Sciences											
SS 110	World History	I								I	I
SS 120	U.S. History	I		I				I		I	I
SS 130	History of Aviation in America	I		I				I	I	I	I
SS 202	Evolution of Scientific Thought	P				P			P	P	P
SS 210	Philosophy Development	P				P			P	M	P
SS 211	U.S. Military History 1776-1933	P		P					P	M	M
SS 220	Government of the U.S.	P		P				P			M
SS 221	U.S. Military History 1933-Present	P		P					P	M	M
SS 225	International Studies	P		P					P	M	M
SS 226	Russia-U.S. Relations	P		P					P	M	M
SS 227	Current Issues in Atlanta	P		P				I		M	M
SS 230	U.S. - World Relations	P		P					P	M	M
SS 234	Contemporary Africa and the World	P		P						P	P
SS 236	The Modern Middle East in World Affairs	P		P						P	P
SS 237	Globalization and World Politics	P		P						P	P
SS 240	U.S. Foreign Policy	P		P				I	P	M	M
SS 280	Psychology of Relationships					P	P			P	P
SS 350	Essay U.S. - Opportunity	P		P				I	P	M	M
SS 360	World American Relations	P		P				I	P	M	M

Systems Engineering											
SY 201	Introduction to Systems Engineering	I	P	P		I	P	I		I	I
SY 202	Systems Engineering Design Considerations	P	P	P	I		P	P			P
SY 203	Optimization in Systems Engineering	I								M	
SY 204	Systems Engineering in Management, Risk, and Decision Making	I	P		I		P		M	P	P
SY 205	Systems Engineering Life Cycle Models		I	I	I				P	P	I
SY 400	Autonomous Systems Guidance and Control	I							P		
SY 410	Space Systems and Mission Analysis	P	P		P				P	P	
SY 417	Senior Systems Engineering Project	M	M	P	M	P			P	I	

Applied Meteorology											
WX 330	Thermodynamics of the Atmosphere	P									
WX 350	Dynamics of the Atmosphere	P									
WX 427	Forecasting Techniques	M	M	M					I		
WX 430	Advanced Weather Analysis	M	M	M							
WX 440	Environmental Security		M	M							I
WX 450	Advanced Dynamical Meteorology	M									
WX 461	Advanced Dynamical Meteorology	M									

Legend:	I	Introduced	P	Practical	M	Mastered
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Assessment Schedule

Mapping Matrixx

[\[Print View\]](#) [\[PDF\]](#)

➔ Assessment Schedule

Alignment Set: DB_Gen_Ed Program Outcomes

Created: 08/16/2014 8:15:15 am EDT

Last Modified: 08/21/2014 11:15:56 am EDT

Assessment Schedule

Courses and Activities Mapped to DB_Gen_Ed Program Outcomes

Show Outcome Descriptions Show Course/Activity Detail

Outcome										
PO_01 Apply knowledge of college-level mathematics for defining and solving problems.	PO_02 Construct effective written documents for technical and non-technical audiences.	PO_03 Communicate ideas in non-written form, such as through oral presentations and visual media.	PO_04 Conduct and report research accurately and in accordance with professional standards.	PO_05 Recognize the importance of ethical responsibility and socially.	PO_06 Identify some of the important results of scientific inquiry in the physical and natural sciences, and use scientific information in critical thinking and decision-making.	PO_07 Use technology to organize and manipulate information to communicate ideas and concepts.	PO_08 Apply economic principles to identify, formulate, and solve problems.	PO_09 Demonstrate an awareness and understanding of the values communicated through the humanities.	PO_10 Describe some of the historical and contemporary issues that affect societies.	PO_11 Recognize the complexity of human experience from a variety of perspectives, for example, cultural, aesthetic, social, technological, scientific, psychological, philosophical, and historical.

DB General Education Assessment Cycles

2014-15 Assessment Cycle	✓	✓	✓		✓	✓		✓		✓
2015-16 Assessment Cycle				✓			✓		✓	
2016-17 Assessment Cycle	✓	✓	✓	✓						
2017-18 Assessment Cycle					✓	✓	✓	✓		
2018-19 Assessment Cycle								✓	✓	✓
2019-20 Assessment Cycle										

Legend: ✓ = Aligned

Last Modified: 08/21/2014 11:15:56 AM

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Additional Information (Optional)

File Attachments:

1. [DB Gen Ed Program Outcomes Curriculum Map.xlsx](#)
2. [DB Gen Ed Program Outcomes Map..xls](#)

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

Alan

Pratt

* Email

pratta@erau.edu

* Phone Number

226.7779

Assessment Plan

Measures

DB_Gen_Ed Program Outcomes

Outcome

Outcome: PO_01

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

Measure: AT202 Introduction to Air Traffic Management

▼ *Program level; Direct - Exam*

Details/Description: Students will be assessed by administering several written exams which will cover the information imparted to that point. This is followed with a course comprehensive final exam. These predetermined questions will be used to measure knowledge of college-level mathematic formulas and techniques used to separate aircraft using time, speed and distance. They will also be tested on their ability to read and understand approach procedures used by pilots in bad weather and communicate that information to the pilot.

Criterion for Success: The outcome will be considered "attained" via these direct assessments when 80% of the students enrolled achieve a final grade of 80% or higher. Failure to reach this threshold should prompt the course instructor(s) /faculty mentor(s) to communicate with one another regarding how to improve performance on the respective criterion.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Edward L. Mummert
Course Monitor AT202

Supporting Attachments:

 [AT202 GenEd Assessment.docx](#) (Word Document (Open XML))

Outcome: PO_02

Construct effective written documents for technical and non-technical audiences.

Measure: AT202 Introduction to Air Traffic Management

▼ *Program level; Direct - Student Artifact*

Details/Description: Satisfactory to excellent performance on Final Report as evaluated by a faculty committee with shared rubric.

Criterion for Success: 80% of the team projects falling within this range will be deemed acceptable.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Emily Faulconer
Course Monitor PS 142

Supporting Attachments:

 [2016-17 Gen Ed Plan PS142_Faulconer.docx](#) (Word Document (Open XML))

Measure: PS 142 Introduction to Environmental Science

▼ *Program level; Indirect - Survey*

Details/Description: LO2: Indirect Assessment: survey questions administered via Canvas (

Criterion for Success: Acceptable response rate is 80% of the class with a positive response from 75% of participants.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Emily Faulconer
Course Monitor PS 142

Supporting Attachments:

 [2016-17 Gen Ed Plan PS142_Faulconer.docx](#) (Word Document (Open XML))

Outcome: PO_03

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

Measure: AT202 Introduction to Air Traffic Management

▼ *Direct - Student Artifact*

Details/Description: Using written exams, students will be tested on their ability to decipher aeronautical charts, maps and

other publications and convey that information verbally to pilots in a clear and concise method. Additionally, students are required to visualize three dimensional airspace and determine what each separate piece of airspace represents.

Criterion for Success: Success Criteria: The outcome will be considered "attained" via these direct assessments when 80% of the students enrolled achieve a final grade of 80% or higher. Failure to reach this threshold should prompt the course instructor(s) /faculty mentor(s) to communicate with one another regarding how to improve performance on the respective criterion.

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Edward L. Mummert
Course Monitor AT202

Supporting Attachments:

 [AT202 GenEd Assessment.docx](#) (Word Document (Open XML))

Outcome: PO_06

Identify some of the important results of scientific inquiry in the physical and natural sciences, and use scientific information in critical thinking and decision-making.

Measure: PS 142 Introduction to Environmental Science

▼ *Program level; Indirect - Survey*

Details/Description: LO6: Indirect Assessment: survey questions administered via Canvas

Criterion for Success: (acceptable response rate is 80% of the class with a positive response from 75% of participants)

Timeframe of Data Collection: Fall/Spring 2016-2017

Key/Responsible Personnel: Emily Faulconer
Course Monitor PS 142

Supporting Attachments:

 [2016-17 Gen Ed Plan PS142 Faulconer.docx](#) (Word Document (Open XML))

Measure: PS 142 Introduction to Environmental Science

▼ *Program level; Direct - Exam*

Details/Description:	Pre and post on a select quiz.
Criterion for Success:	A 30% improvement in at least 70% of the class will be deemed acceptable.
Timeframe of Data Collection:	Fall/Spring 2016-2017
Key/Responsible Personnel:	Emily Faulconer Course Monitor PS 142

Supporting Attachments:

 [2016-17 Gen Ed Plan PS142 Faulconer.docx](#) (Word Document (Open XML))

Outcome: PO_07

Use technology to organize and manipulate information to communicate ideas and concepts.

Measure: BA 352 - Business Quantitative Methods

▼ *Program level; Direct - Student Artifact*

Details/Description:	Implement mathematical model on a computer using Microsoft Excel and understand the resulting output.
Criterion for Success:	At least 70% of submission to the final problem solving project from the course will demonstrate acceptable use of Microsoft Excel to organize, manipulate, and solve business related problems.
Timeframe of Data Collection:	Fall/Spring 2016-2017

Key/Responsible Personnel: John Longshore
Course Monitor

Supporting Attachments:

 [BA 352.docx](#) (Word Document (Open XML))

Additional/Ad-hoc Program Improvements (Optional)

Attachments