

# Graduating Student Survey

# 2013

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Daytona Beach degree program tables, academic year 2012 – 2013.

Graduating Student Survey  
Academic Year 2012-2013  
Daytona Beach Program Outcomes

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## Methodology

The Graduating Student Survey was created to gather information from ERAU students who have graduated or are planning to graduate during the listed academic year. The instrument includes questions on employment, additional education, general education and program specific learning outcomes. Participation allows ERAU to establish placement rates, track the pursuance of higher education, respond to accreditation requirements, and assess the curricula. The Graduating Student Survey was sent to students from both Daytona and Prescott campuses listed as prospective graduates approximately two months prior to graduation. The survey was completed and submitted in an online format. Daytona Beach Campus N=389.

Graduating Student Survey  
Academic Year 2012-2013  
Daytona Beach Program Outcomes

## Undergraduate Degree Programs

To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Aeronautical Science Daytona Beach

	Very Much		Quite A Bit		Some		Very Little		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
An ability to apply knowledge of mathematics, science, and applied sciences	13	30.2%	11	25.6%	15	34.9%	4	9.3%	0	.0%	43	100.0%
An ability to analyze and interpret data	11	26.2%	23	54.8%	5	11.9%	2	4.8%	1	2.4%	42	100.0%
An ability to function on multi-disciplinary teams	14	31.8%	19	43.2%	10	22.7%	1	2.3%	0	.0%	44	100.0%
An understanding of professional and ethical responsibility	19	44.2%	15	34.9%	8	18.6%	1	2.3%	0	.0%	43	100.0%
An ability to communicate effectively, including both written and verbal communication skills	14	32.6%	19	44.2%	8	18.6%	2	4.7%	0	.0%	43	100.0%
A recognition of the need for, and an ability to engage in, life-long learning	16	37.2%	20	46.5%	6	14.0%	1	2.3%	0	.0%	43	100.0%
A knowledge of contemporary issues	13	30.2%	18	41.9%	10	23.3%	2	4.7%	0	.0%	43	100.0%
An ability to use the techniques, skills, and modern technology necessary for professional practice	15	34.9%	18	41.9%	10	23.3%	0	.0%	0	.0%	43	100.0%
An understanding of the national and international aviation environment	21	48.8%	14	32.6%	6	14.0%	2	4.7%	0	.0%	43	100.0%
An ability to apply pertinent knowledge in identifying and solving problems.	16	37.2%	19	44.2%	7	16.3%	1	2.3%	0	.0%	43	100.0%

To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Aeronautics Daytona Beach

	Very Much		Quite A Bit		Some		Very Little		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Knowledge and understanding of aviation law and the regulatory process	19	48.7%	14	35.9%	5	12.8%	1	2.6%	0	.0%	39	100.0%
Understanding and application of management theory/concepts	9	23.1%	18	46.2%	10	25.6%	1	2.6%	1	2.6%	39	100.0%
Knowledge and understanding of economic principles	7	17.9%	16	41.0%	12	30.8%	3	7.7%	1	2.6%	39	100.0%
Use of statistical/quantitative techniques to solve problems	10	27.0%	15	40.5%	7	18.9%	4	10.8%	1	2.7%	37	100.0%
Knowledge and understanding of aviation, technology and operations, concepts, theory and applications	22	56.4%	14	35.9%	2	5.1%	0	.0%	1	2.6%	39	100.0%
Knowledge and understanding of the many facets of the aviation industry	20	51.3%	15	38.5%	2	5.1%	2	5.1%	0	.0%	39	100.0%
Dealing with integrity issues	12	30.8%	10	25.6%	11	28.2%	2	5.1%	4	10.3%	39	100.0%
Development of moral character	12	30.8%	11	28.2%	9	23.1%	3	7.7%	4	10.3%	39	100.0%
Assertiveness in a leadership or subordinate role	13	33.3%	13	33.3%	9	23.1%	3	7.7%	1	2.6%	39	100.0%
Knowledge and understanding of basic computer skills such as email, word processing, presentations, and	10	25.6%	11	28.2%	11	28.2%	3	7.7%	4	10.3%	39	100.0%
Knowledge of scientific principles	11	28.2%	16	41.0%	9	23.1%	2	5.1%	1	2.6%	39	100.0%
Distinguish themselves as valuable employees in the varied employment areas available	11	28.2%	15	38.5%	12	30.8%	0	.0%	1	2.6%	39	100.0%
Identify the influence and importance of the history of aviation	18	46.2%	15	38.5%	5	12.8%	1	2.6%	0	.0%	39	100.0%
Illustrate their preparedness in technical writing skills	11	28.2%	21	53.8%	3	7.7%	3	7.7%	1	2.6%	39	100.0%

To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Aerospace Engineering Daytona Beach

	Very Much		Quite A Bit		Some		Very Little		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Engineering responsibilities and methodology	61	59.2%	34	33.0%	7	6.8%	0	.0%	1	1.0%	103	100.0%
Professional activity and development	51	49.5%	30	29.1%	16	15.5%	5	4.9%	1	1.0%	103	100.0%
Technical communication	43	41.7%	33	32.0%	20	19.4%	5	4.9%	2	1.9%	103	100.0%
General education	38	36.9%	30	29.1%	22	21.4%	10	9.7%	3	2.9%	103	100.0%
Basic science and mathematics	51	50.0%	37	36.3%	10	9.8%	1	1.0%	3	2.9%	102	100.0%
Engineering mechanics	62	60.2%	32	31.1%	7	6.8%	0	.0%	2	1.9%	103	100.0%
Aerodynamics and aeronautics	70	68.0%	21	20.4%	9	8.7%	1	1.0%	2	1.9%	103	100.0%
Thermal sciences and propulsion	48	47.1%	36	35.3%	12	11.8%	4	3.9%	2	2.0%	102	100.0%
Structures and materials	55	53.4%	29	28.2%	11	10.7%	6	5.8%	2	1.9%	103	100.0%
Electronics	29	29.0%	30	30.0%	32	32.0%	7	7.0%	2	2.0%	100	100.0%
Astronautics	27	26.2%	29	28.2%	23	22.3%	18	17.5%	6	5.8%	103	100.0%
Laboratories and data interpretation	38	36.9%	36	35.0%	19	18.4%	6	5.8%	4	3.9%	103	100.0%
Design	55	53.4%	31	30.1%	9	8.7%	5	4.9%	3	2.9%	103	100.0%
Support hardware and software	26	25.2%	39	37.9%	13	12.6%	13	12.6%	12	11.7%	103	100.0%

**Graduating Student Survey  
Academic Year 2012-2013  
Daytona Beach Program Outcomes**

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Air Traffic Management Daytona Beach**

	Very Much		Quite A Bit		Some		Very Little		Total	
	#	%	#	%	#	%	#	%	#	%
Understanding the history, mission, purpose and duty priority of air traffic control	24	75.0%	7	21.9%	1	3.1%	0	.0%	32	100.0%
Understanding the principles of flight and the pilot's environment	18	56.3%	10	31.3%	3	9.4%	1	3.1%	32	100.0%
Knowledge of basic communications and air traffic control phraseology	25	78.1%	6	18.8%	1	3.1%	0	.0%	32	100.0%
Knowledge of Instrument Approach Procedure (IAP), Departure Procedure (DP), and Standard Arrival Route	21	65.6%	7	21.9%	3	9.4%	1	3.1%	32	100.0%
Knowledge of VFR Sectional Charts, VFR Terminal Charts, IFR Enroute Low Altitude Charts, IFR Enroute High	22	68.8%	5	15.6%	4	12.5%	1	3.1%	32	100.0%
Understanding of basic weather fundamentals, weather systems, and hazardous weather	19	59.4%	9	28.1%	3	9.4%	1	3.1%	32	100.0%
Knowledge and ability to interpret meteorological reports: METARs, Terminal Area Forecasts, AIRMETs, SIGMETs,	21	65.6%	7	21.9%	3	9.4%	1	3.1%	32	100.0%
Knowledge of air traffic control strip marking: enroute and terminal	27	84.4%	4	12.5%	1	3.1%	0	.0%	32	100.0%
Understanding of Radar separation procedures, airspace to be protected speed adjustments, vectoring	22	71.0%	8	25.8%	1	3.2%	0	.0%	31	100.0%
Knowledge of basic VFR Control Tower operations, including duties and responsibilities associated with the	22	68.8%	9	28.1%	1	3.1%	0	.0%	32	100.0%
Knowledge of Federal Aviation Regulations as they pertain to Air Traffic Control	21	65.6%	9	28.1%	2	6.3%	0	.0%	32	100.0%
Understanding of Air Route Traffic Control Center operations as they pertain to radar separation of aircraft	22	68.8%	9	28.1%	1	3.1%	0	.0%	32	100.0%
Understanding of Air Route Traffic Control Center operations as they pertain to non-radar separation of aircraft	21	65.6%	10	31.3%	1	3.1%	0	.0%	32	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Applied Meteorology Daytona Beach**

	Very Much		Quite A Bit		Some		Very Little		Total	
	#	%	#	%	#	%	#	%	#	%
Ability to apply knowledge of meteorology, math, and the sciences in general to projects, services and assignments	12	80.0%	2	13.3%	1	6.7%	0	.0%	15	100.0%
Knowledge and ability to utilize techniques, skills, and computer resources for weather data gathering, analysis, interpretation, and product generation	11	73.3%	3	20.0%	1	6.7%	0	.0%	15	100.0%
Ability to function in teams	6	40.0%	6	40.0%	3	20.0%	0	.0%	15	100.0%
An understanding of professional and ethical responsibilities	6	40.0%	6	40.0%	3	20.0%	0	.0%	15	100.0%
Ability to express complex weather concepts in terms that others can understand using both written and verbal communication methods	8	53.3%	5	33.3%	2	13.3%	0	.0%	15	100.0%
A recognition of the need for, and an ability to engage in, life-long learning	10	66.7%	3	20.0%	0	.0%	2	13.3%	15	100.0%
A knowledge of contemporary meteorological problems, issues, and programs for both research and user applications	9	60.0%	5	33.3%	0	.0%	1	6.7%	15	100.0%
Ability to use techniques, skills, and modern technology for meteorological professional practices	9	60.0%	5	33.3%	1	6.7%	0	.0%	15	100.0%
An understanding of the national and international aviation environment which relate to weather	12	80.0%	2	13.3%	0	.0%	1	6.7%	15	100.0%
Ability to apply pertinent meteorological knowledge in identifying and solving problems for both yourself and for customers	10	66.7%	4	26.7%	1	6.7%	0	.0%	15	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Aviation Maintenance Science Daytona Beach**

	Very Much		Quite A Bit		Some		Very Little		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
An ability to apply knowledge of mathematics, science, and applied sciences	4	33.3%	4	33.3%	3	25.0%	0	.0%	1	8.3%	12	100.0%
An ability to analyze and interpret data	4	33.3%	5	41.7%	2	16.7%	1	8.3%	0	.0%	12	100.0%
An ability to function on multi-disciplinary teams	4	33.3%	4	33.3%	3	25.0%	0	.0%	1	8.3%	12	100.0%
An understanding of professional and ethical responsibility	4	33.3%	4	33.3%	3	25.0%	1	8.3%	0	.0%	12	100.0%
An ability to communicate effectively, including both written and verbal communication skills	4	33.3%	4	33.3%	4	33.3%	0	.0%	0	.0%	12	100.0%
A recognition of the need for, and an ability to engage in, life-long learning	5	41.7%	3	25.0%	4	33.3%	0	.0%	0	.0%	12	100.0%
A knowledge of contemporary issues	3	25.0%	6	50.0%	2	16.7%	1	8.3%	0	.0%	12	100.0%
An ability to use the techniques, skills, and modern technology necessary for professional practice	5	41.7%	4	33.3%	2	16.7%	0	.0%	1	8.3%	12	100.0%
An understanding of the national and international aviation environment	3	25.0%	6	50.0%	2	16.7%	1	8.3%	0	.0%	12	100.0%
An ability to apply pertinent knowledge in identifying and solving problems.	4	33.3%	5	41.7%	2	16.7%	1	8.3%	0	.0%	12	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Business Administration Daytona Beach**

	Very Much		Quite A Bit		Some		Total	
	#	%	#	%	#	%	#	%
Applying management theory/concepts into a dynamic organizational environment	6	50.0%	5	41.7%	1	8.3%	12	100.0%
Applying accounting and financial information for decision making in a for-profit and not-for-profit entity	5	41.7%	5	41.7%	2	16.7%	12	100.0%
Integrate knowledge of macro- and micro-economics into managerial decision making	7	58.3%	4	33.3%	1	8.3%	12	100.0%
Applying statistical and/or quantitative techniques to problem solving in organizations	6	50.0%	4	33.3%	2	16.7%	12	100.0%
Integrate marketing concepts/practices into executing global market strategies	6	50.0%	4	33.3%	2	16.7%	12	100.0%
Formulate business decisions by incorporating ethical standards and principles	7	58.3%	4	33.3%	1	8.3%	12	100.0%
Access, analyze, and communicate information using multiple means/media	7	58.3%	4	33.3%	1	8.3%	12	100.0%
Understands the nature of business ethics and the role of social responsibility	7	58.3%	4	33.3%	1	8.3%	12	100.0%

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**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Computer Engineering Daytona Beach**

	Very Much		Quite A Bit		Some		Very Little		Total	
	#	%	#	%	#	%	#	%	#	%
An ability to apply knowledge of mathematics, science, and engineering	6	85.7%	0	.0%	1	14.3%	0	.0%	7	100.0%
An ability to design and conduct experiments, as well as to analyze and interpret data	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
An ability to function on multi-disciplinary teams	5	71.4%	1	14.3%	0	.0%	1	14.3%	7	100.0%
An ability to identify, formulate, and solve engineering problems	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
An understanding of professional and ethical responsibility	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
An ability to communicate effectively	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
An understanding of the impact of engineering solutions in a global and societal context	4	57.1%	3	42.9%	0	.0%	0	.0%	7	100.0%
A recognition of the need for, and an ability to engage in life-long learning	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
An understanding of contemporary issues in computer engineering	6	85.7%	1	14.3%	0	.0%	0	.0%	7	100.0%
An ability to use the techniques, skills, and modern engineering tools necessary to engineering practice	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
An understanding of real-time embedded computer systems	6	85.7%	1	14.3%	0	.0%	0	.0%	7	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Electrical Engineering Daytona Beach**

	Very Much		Quite A Bit		Total	
	#	%	#	%	#	%
An ability to apply knowledge of mathematics (including multivariable calculus, differential equations, linear algebra and statistics), science (including chemistry and in-depth calculus-based physics), and engineering.	3	100.0%	0	.0%	3	100.0%
An ability to design and conduct experiments, as well as analyze and interpret data.	2	66.7%	1	33.3%	3	100.0%
An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environment, social, political, ethical, health and safety, manufacturability, and sustainability.	3	100.0%	0	.0%	3	100.0%
An ability to function on multi-disciplinary teams.	2	66.7%	1	33.3%	3	100.0%
An ability to identify, formulate, and solve engineering problems.	3	100.0%	0	.0%	3	100.0%
An understanding of professional and ethical responsibility	3	100.0%	0	.0%	3	100.0%
An ability to communicate effectively.	3	100.0%	0	.0%	3	100.0%
The broad education necessary to understand the impact of engineering solutions in a global and societal context.	3	100.0%	0	.0%	3	100.0%
A recognition of the need for, and an ability to engage in life-long learning.	3	100.0%	0	.0%	3	100.0%
Knowledge of contemporary issues.	2	66.7%	1	33.3%	3	100.0%
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	3	100.0%	0	.0%	3	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Engineering Physics Daytona Beach**

	Very Much		Quite A Bit		Some		Very Little		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Apply knowledge of mathematics, science, and engineering	7	87.5%	1	12.5%	0	.0%	0	.0%	0	.0%	8	100.0%
Design and conduct experiments	5	62.5%	2	25.0%	1	12.5%	0	.0%	0	.0%	8	100.0%
Analyze and interpret data	5	62.5%	3	37.5%	0	.0%	0	.0%	0	.0%	8	100.0%
Design a system, component, or process to meet desired needs	6	75.0%	2	25.0%	0	.0%	0	.0%	0	.0%	8	100.0%
Function on multi-disciplinary teams	5	62.5%	1	12.5%	1	12.5%	1	12.5%	0	.0%	8	100.0%
Identify, formulate, and solve engineering problems	6	75.0%	1	12.5%	0	.0%	1	12.5%	0	.0%	8	100.0%
Understand professional and ethical responsibility	3	37.5%	0	.0%	2	25.0%	2	25.0%	1	12.5%	8	100.0%
Communicate effectively	5	62.5%	2	25.0%	0	.0%	1	12.5%	0	.0%	8	100.0%
Understand the impact of engineering solutions in a global and societal context	2	25.0%	3	37.5%	1	12.5%	0	.0%	2	25.0%	8	100.0%
Recognize and engage in life-long learning	5	62.5%	1	12.5%	1	12.5%	0	.0%	1	12.5%	8	100.0%
Knowledge of contemporary issues	2	25.0%	2	25.0%	4	50.0%	0	.0%	0	.0%	8	100.0%
Use the techniques, skills, and modern engineering tools necessary for	6	75.0%	2	25.0%	0	.0%	0	.0%	0	.0%	8	100.0%
Knowledge of classical mechanics	6	75.0%	2	25.0%	0	.0%	0	.0%	0	.0%	8	100.0%
Knowledge of engineering electricity and magnetism	5	62.5%	3	37.5%	0	.0%	0	.0%	0	.0%	8	100.0%
Knowledge of space physics	5	62.5%	2	25.0%	1	12.5%	0	.0%	0	.0%	8	100.0%
Knowledge of quantum physics	3	37.5%	3	37.5%	1	12.5%	1	12.5%	0	.0%	8	100.0%
Knowledge of space systems engineering and design	7	87.5%	0	.0%	0	.0%	1	12.5%	0	.0%	8	100.0%
Knowledge of electro-optical engineering	3	37.5%	2	25.0%	3	37.5%	0	.0%	0	.0%	8	100.0%
Knowledge of microcomputers and electronic instrumentation	6	75.0%	1	12.5%	1	12.5%	0	.0%	0	.0%	8	100.0%

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**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Homeland Security Daytona Beach**

	Very Much		Quite A Bit		Some		Total	
	#	%	#	%	#	%	#	%
Capability for students to work collaboratively and effectively on teams.	6	50.0%	3	25.0%	3	25.0%	12	100.0%
Capability to deliver professional presentations and briefs.	7	58.3%	3	25.0%	2	16.7%	12	100.0%
Demonstrate the ability to recognize transnational and global homeland security or defense issues, strategies and operations.	8	66.7%	3	25.0%	1	8.3%	12	100.0%
Demonstrate the ability to design, conduct and evaluate exercises applicable to the disciplines of homeland security or defense.	8	72.7%	2	18.2%	1	9.1%	11	100.0%
Demonstrate knowledge of contemporary or emergent threats, challenges or issues including natural, manmade and technological hazards.	8	72.7%	3	27.3%	0	.0%	11	100.0%
Demonstrate the ability to identify, describe and critically evaluate applicable homeland security or defense technologies.	8	72.7%	3	27.3%	0	.0%	11	100.0%
Demonstrate an understanding of terrorism, its origins, ideologies and goals.	8	72.7%	3	27.3%	0	.0%	11	100.0%
Demonstrate an understanding of infrastructures critical to the US and how best to protect them.	8	72.7%	3	27.3%	0	.0%	11	100.0%
Provide the ability for students to understand and apply risk management tools to homeland security issues.	8	72.7%	3	27.3%	0	.0%	11	100.0%
Demonstrate the ability to analyze environmental sources that destabilize regions and to characterize their relationship to US national security.	7	63.6%	4	36.4%	0	.0%	11	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Human Factors Psychology Daytona Beach**

	Very Much		Quite A Bit		Some		Very Little		Total	
	#	%	#	%	#	%	#	%	#	%
Knowledge of human psycho physiological, cognitive, and perceptual functioning	11	100.0%	0	.0%	0	.0%	0	.0%	11	100.0%
Knowledge of human factors involving analytic methods, models, and human capabilities and limitations	9	81.8%	2	18.2%	0	.0%	0	.0%	11	100.0%
Knowledge of basic statistical procedures, including analysis of variance	9	81.8%	1	9.1%	0	.0%	1	9.1%	11	100.0%
Research methods and design skills	9	81.8%	2	18.2%	0	.0%	0	.0%	11	100.0%
Effective oral and written communication skills	5	45.5%	1	9.1%	5	45.5%	0	.0%	11	100.0%
Ability to read, comprehend, and analyze results of published empirical studies in the human factors field	6	54.5%	3	27.3%	2	18.2%	0	.0%	11	100.0%
Understanding of the application of human factors and psychological knowledge in aviation and other applied domains	6	54.5%	4	36.4%	1	9.1%	0	.0%	11	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Interdisciplinary Studies Daytona Beach**

	Very Much		Quite A Bit		Some		Total	
	#	%	#	%	#	%	#	%
Understand basic concepts in several areas of study, such as aeronautical science, business administration, and social sciences.	2	40.0%	2	40.0%	1	20.0%	5	100.0%
Understand the complex history and culture of one or more world regions.	2	40.0%	2	40.0%	1	20.0%	5	100.0%
Develop vocabulary and writing skills that apply to specific communication contexts.	2	40.0%	3	60.0%	0	.0%	5	100.0%
Appreciate and understand the complexity and magnitude of human production in literature, the visual arts, architecture, religion, and myth.	0	.0%	2	40.0%	3	60.0%	5	100.0%
Develop skills in analytical interpretations of works in the humanities.	0	.0%	2	40.0%	3	60.0%	5	100.0%
Appreciate and understand human moral, religious, or philosophical thinking and belief systems.	1	20.0%	3	60.0%	1	20.0%	5	100.0%
Garner skills and knowledge from intersecting minors to form a coherent body of knowledge.	1	20.0%	3	60.0%	1	20.0%	5	100.0%
Conduct analytical research that intersects with at least two areas of study or complete a co-operative experience that enhanced knowledge and skills gained in the classroom.	2	40.0%	1	20.0%	2	40.0%	5	100.0%

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**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Mechanical Engineering Daytona Beach**

	Very Much		Quite A Bit		Some		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%
An ability to apply knowledge of mathematics, science, and engineering	4	57.1%	2	28.6%	1	14.3%	0	.0%	7	100.0%
An ability to design and conduct experiments, as well as analyze and interpret data	3	42.9%	3	42.9%	1	14.3%	0	.0%	7	100.0%
An ability to design and realize a thermal or mechanical system, component or process to meet desires	4	57.1%	2	28.6%	1	14.3%	0	.0%	7	100.0%
An ability to function on multi-disciplinary teams	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
An ability to identify, formulate, and solve engineering problems	4	57.1%	2	28.6%	1	14.3%	0	.0%	7	100.0%
An understanding of professional and ethical responsibility	3	42.9%	3	42.9%	1	14.3%	0	.0%	7	100.0%
An ability to communicate effectively	4	57.1%	3	42.9%	0	.0%	0	.0%	7	100.0%
An understanding of the impact of engineering solutions in a global and societal context	5	71.4%	2	28.6%	0	.0%	0	.0%	7	100.0%
A recognition of, and an ability to engage in, life-long learning	2	28.6%	3	42.9%	1	14.3%	1	14.3%	7	100.0%
A knowledge of contemporary issues	1	14.3%	4	57.1%	1	14.3%	1	14.3%	7	100.0%
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	3	42.9%	3	42.9%	1	14.3%	0	.0%	7	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Safety Science Daytona Beach**

	Very Much		Quite A Bit		Some		Very Little		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Identify, evaluate and control health and safety hazards in the workplace	5	83.3%	1	16.7%	0	.0%	0	.0%	0	.0%	6	100.0%
Demonstrate competency in the principles of fire prevention, suppression, and life safety	5	83.3%	1	16.7%	0	.0%	0	.0%	0	.0%	6	100.0%
Demonstrate competency in the fundamentals of industrial hygiene and toxicology	3	50.0%	3	50.0%	0	.0%	0	.0%	0	.0%	6	100.0%
Apply systems safety analysis techniques to identify, prioritize, and control hazards in human-machine	3	50.0%	3	50.0%	0	.0%	0	.0%	0	.0%	6	100.0%
Demonstrate knowledge of aviation safety reporting systems and safety data sources	4	66.7%	2	33.3%	0	.0%	0	.0%	0	.0%	6	100.0%
Deal with the threat of violence and other international harmful acts in the workplace	3	50.0%	2	33.3%	0	.0%	1	16.7%	0	.0%	6	100.0%
Develop, test, and maintain an airport emergency plan, including Aircraft Rescue and Fire Fighting	3	50.0%	2	33.3%	1	16.7%	0	.0%	0	.0%	6	100.0%
Develop an understanding of federal human resources statutes and legal torts and contracts as it relates to safety/risk management in aviation law	4	66.7%	1	16.7%	1	16.7%	0	.0%	0	.0%	6	100.0%
Develop and maintain a comprehensive workplace safety program	4	66.7%	2	33.3%	0	.0%	0	.0%	0	.0%	6	100.0%
Demonstrate competency in applying OSHA and EPA regulations to the workplace	5	83.3%	1	16.7%	0	.0%	0	.0%	0	.0%	6	100.0%
Apply DOT regulations to the application of different classes of hazardous materials	3	50.0%	2	33.3%	1	16.7%	0	.0%	0	.0%	6	100.0%
Discuss the federal regulations pertaining to aircraft operations, rulemaking and certification	4	66.7%	1	16.7%	1	16.7%	0	.0%	0	.0%	6	100.0%
Evaluate an airport's compliance with federal regulations	4	66.7%	1	16.7%	1	16.7%	0	.0%	0	.0%	6	100.0%
Explain the application of workers' compensation practices	3	50.0%	0	.0%	2	33.3%	1	16.7%	0	.0%	6	100.0%
Initiate, develop, conduct and manage aircraft accident investigations in accordance with all the requirements of the NTSB FAA and other relevant regulatory bodies	4	66.7%	1	16.7%	0	.0%	1	16.7%	0	.0%	6	100.0%
Apply SHELL and Reason's model to understanding accident causation and prevention	4	66.7%	1	16.7%	0	.0%	1	16.7%	0	.0%	6	100.0%
Evaluate the role of human factors issues (fatigue, body rhythms, vision, etc.) as they relate to human performance and accident causation and prevention	5	83.3%	0	.0%	1	16.7%	0	.0%	0	.0%	6	100.0%
Apply principles of crash survival to the design and outfitting of aircraft	5	83.3%	0	.0%	1	16.7%	0	.0%	0	.0%	6	100.0%
Complete a "Crash Survival Analysis" rating for various fixed-wing rotor aircraft	4	66.7%	1	16.7%	0	.0%	0	.0%	1	16.7%	6	100.0%
Demonstrate the ability to work in teams	5	83.3%	1	16.7%	0	.0%	0	.0%	0	.0%	6	100.0%
Write and formulate a technical report	4	66.7%	0	.0%	2	33.3%	0	.0%	0	.0%	6	100.0%
Possess professional presentation skills	5	83.3%	0	.0%	1	16.7%	0	.0%	0	.0%	6	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Software Engineering Daytona Beach**

	Very Much		Quite A Bit		Some		Total	
	#	%	#	%	#	%	#	%
An ability to apply knowledge of mathematics, science, and engineering	2	66.7%	1	33.3%	0	.0%	3	100.0%
An ability to design and conduct experiments, and an ability to analyze the data	2	66.7%	1	33.3%	0	.0%	3	100.0%
An ability to design and implement a software system, component, or process to meet desired needs	1	33.3%	2	66.7%	0	.0%	3	100.0%
An ability to function on multi-disciplinary teams	2	66.7%	1	33.3%	0	.0%	3	100.0%
An ability to identify, formulate, and solve engineering problems	2	66.7%	1	33.3%	0	.0%	3	100.0%
An understanding of real-time, safety-critical, embedded computer systems	1	33.3%	1	33.3%	1	33.3%	3	100.0%
An understanding of professional and ethical responsibility	1	33.3%	2	66.7%	0	.0%	3	100.0%
An ability to communicate effectively	0	.0%	3	100.0%	0	.0%	3	100.0%
An understanding of the impact of engineering solutions in a global and societal context	0	.0%	3	100.0%	0	.0%	3	100.0%
A recognition of the need for, and an ability to engage in life-long learning	1	33.3%	2	66.7%	0	.0%	3	100.0%
An understanding of contemporary issues in software engineering	2	66.7%	1	33.3%	0	.0%	3	100.0%
An ability to use the techniques, skills, and modern engineering tools necessary to engineering practice	2	66.7%	1	33.3%	0	.0%	3	100.0%



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To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
BS Space Physics Daytona Beach

	Very Much		Quite A Bit		Some		Very Little		Total	
	#	%	#	%	#	%	#	%	#	%
Apply knowledge of mathematics and science	3	100.0%	0	.0%	0	.0%	0	.0%	3	100.0%
Design and conduct experiments	2	66.7%	0	.0%	1	33.3%	0	.0%	3	100.0%
Analyze and interpret data	2	66.7%	1	33.3%	0	.0%	0	.0%	3	100.0%
Identify, formulate, and solve scientific problems	3	100.0%	0	.0%	0	.0%	0	.0%	3	100.0%
Understand professional and ethical responsibility	1	33.3%	0	.0%	2	66.7%	0	.0%	3	100.0%
Communicate effectively	2	66.7%	0	.0%	1	33.3%	0	.0%	3	100.0%
Recognize and engage in life-long learning	1	33.3%	1	33.3%	1	33.3%	0	.0%	3	100.0%
Knowledge of contemporary issues	2	66.7%	0	.0%	1	33.3%	0	.0%	3	100.0%
Knowledge of classical mechanics	3	100.0%	0	.0%	0	.0%	0	.0%	3	100.0%
Knowledge of electricity and magnetism	2	66.7%	0	.0%	0	.0%	1	33.3%	3	100.0%
Knowledge of space physics	2	66.7%	1	33.3%	0	.0%	0	.0%	3	100.0%
Knowledge of quantum mechanics	3	100.0%	0	.0%	0	.0%	0	.0%	3	100.0%
Knowledge of planetary science	3	100.0%	0	.0%	0	.0%	0	.0%	3	100.0%
Knowledge of astrophysics	3	100.0%	0	.0%	0	.0%	0	.0%	3	100.0%

## Graduate Degree Programs

To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
MS Aeronautics Daytona Beach

	Not		Very Much		Quite A Bit		Some		Very Little		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Work collaboratively as a team with individual accountability and team building skills	0	.0%	12	54.5%	5	22.7%	3	13.6%	1	4.5%	1	4.5%	22	100.0%
Demonstrate problem-solving skills using scientific research methods	1	4.5%	9	40.9%	8	36.4%	4	18.2%	0	.0%	0	.0%	22	100.0%
Demonstrate graduate level writing ability using APA format	0	.0%	15	68.2%	6	27.3%	1	4.5%	0	.0%	0	.0%	22	100.0%
Demonstrate professional communication and oral presentation skills using appropriate media	0	.0%	15	68.2%	5	22.7%	2	9.1%	0	.0%	0	.0%	22	100.0%
Demonstrate the ability to evaluate current industry issues or problems using critical thinking skills.	0	.0%	11	50.0%	9	40.9%	1	4.5%	1	4.5%	0	.0%	22	100.0%
Demonstrate the use of technology appropriate to industry requirements.	0	.0%	11	50.0%	9	40.9%	1	4.5%	1	4.5%	0	.0%	22	100.0%
Apply an ethical and professional framework to decision making.	0	.0%	11	50.0%	7	31.8%	3	13.6%	1	4.5%	0	.0%	22	100.0%

To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
MS Aerospace Engineering Daytona Beach

	Very Much		Quite A Bit		Some		Very Little		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Ability to analyze and solve engineering problems	6	60.0%	3	30.0%	0	.0%	1	10.0%	0	.0%	10	100.0%
In one or more of the following subject areas: aerodynamics, aerospace materials, computational methods, controls, propulsion and structures	7	70.0%	2	20.0%	0	.0%	1	10.0%	0	.0%	10	100.0%
Preparation for a career in the aerospace industry	3	30.0%	2	20.0%	2	20.0%	2	20.0%	1	10.0%	10	100.0%
Preparation for further study	1	10.0%	3	30.0%	3	30.0%	3	30.0%	0	.0%	10	100.0%

To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?  
MS Business Administration Daytona Beach

	Very Much		Quite A Bit		Some		Very Little		Total	
	#	%	#	%	#	%	#	%	#	%
Apply key organizational concepts of group dynamics, leadership, conflict resolution, ethics and motivation in implementing organizational goals	5	35.7%	5	35.7%	4	28.6%	0	.0%	14	100.0%
Apply the concepts and strategies involved in planning, implementing and controlling, a marketing plan with special emphasis on aviation/aerospace organizations	5	35.7%	5	35.7%	4	28.6%	0	.0%	14	100.0%
Analyze financial statements and utilize corporate finance concepts and techniques in decision making within organizations	4	28.6%	6	42.9%	3	21.4%	1	7.1%	14	100.0%
Access, analyze, and communicate information using multiple means/media	5	35.7%	6	42.9%	3	21.4%	0	.0%	14	100.0%
Apply statistical and quantitative analysis to solve business problems	5	35.7%	8	57.1%	1	7.1%	0	.0%	14	100.0%
Integrate knowledge of macro- and micro-economic concepts to support aviation/aerospace operations	5	35.7%	6	42.9%	3	21.4%	0	.0%	14	100.0%
Formulate and execute strategies and policies required to achieve organizational goals in the competitive environment of airlines, airports, aerospace, manufacturing, and government	6	42.9%	7	50.0%	0	.0%	1	7.1%	14	100.0%



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**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?**  
**MS Engineering Physics Daytona Beach**

	Very Much		Quite A Bit		Some		Not At All		Total	
	#	%	#	%	#	%	#	%	#	%
Ability to identify, formulate and solve space science and engineering problems	2	50.0%	1	25.0%	1	25.0%	0	.0%	4	100.0%
Understanding and ability to apply advanced numerical methods	2	50.0%	2	50.0%	0	.0%	0	.0%	4	100.0%
Understanding and ability to apply advanced space physics concepts	2	50.0%	1	25.0%	1	25.0%	0	.0%	4	100.0%
Understanding and ability to apply experimental methods in space science	1	25.0%	1	25.0%	2	50.0%	0	.0%	4	100.0%
Knowledge of advanced spacecraft dynamics and control	2	50.0%	1	25.0%	1	25.0%	0	.0%	4	100.0%
Knowledge of spacecraft power and thermal design	1	25.0%	1	25.0%	1	25.0%	1	25.0%	4	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?**  
**MS Human Factors and Systems (Systems Engineering) Daytona Beach**

	Very Much		Quite A Bit		Some		Total	
	#	%	#	%	#	%	#	%
Knowledge of general systems concepts	3	75.0%	1	25.0%	0	.0%	4	100.0%
Ability to apply the knowledge of reliability, maintainability, logistics, safety, and producibility to operational and design problems	3	75.0%	1	25.0%	0	.0%	4	100.0%
Ability to identify human factors problems in operational environments	3	75.0%	1	25.0%	0	.0%	4	100.0%
Ability to balance operational, behavioral, economic, and logistical factors in operations and design	3	75.0%	0	.0%	1	25.0%	4	100.0%
Understanding and ability to apply statistical and quantitative techniques	3	75.0%	0	.0%	1	25.0%	4	100.0%
Understanding and ability to apply the strategies involved in planning, implementing, and controlling a research plan	3	75.0%	0	.0%	1	25.0%	4	100.0%

## Minor Degree Programs

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?**  
**Minor in Air Traffic Control Daytona Beach**

	Strongly		Agree		Neutral		Disagree		Strongly		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Understanding the history, mission, purpose and duty priority of air traffic control	10	52.6%	8	42.1%	0	.0%	1	5.3%	0	.0%	19	100.0%
Knowledge of Instrument Approach Procedure (IAP), Departure Procedure (DP), and Standard Arrival Route (STAR) Charts	8	42.1%	6	31.6%	2	10.5%	2	10.5%	1	5.3%	19	100.0%
Understanding of Radar separation procedures, airspace to be protected, speed adjustments, vectoring techniques and traffic coordination applicable to Air Traffic Control operations	9	47.4%	7	36.8%	3	15.8%	0	.0%	0	.0%	19	100.0%
Knowledge of basic VFR Control Tower operations, including duties and responsibilities associated with the operating positions of local control, ground control, and flight data/clearance delivery	12	63.2%	4	21.1%	2	10.5%	0	.0%	1	5.3%	19	100.0%
Knowledge of Federal Aviation Regulations as they pertain to Air Traffic Control	9	47.4%	7	36.8%	3	15.8%	0	.0%	0	.0%	19	100.0%
Understanding of Air Route Traffic Control Center operations as they pertain to radar separation of aircraft	9	47.4%	7	36.8%	2	10.5%	1	5.3%	0	.0%	19	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?**  
**Minor in Business Administration Daytona Beach**

	Strongly		Agree		Neutral		Disagree		Strongly		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Applying management theory/concepts into a dynamic organizational environment	9	19.6%	26	56.5%	8	17.4%	3	6.5%	0	.0%	46	100.0%
Applying accounting and financial information for decision making in a for-profit and not-for-profit entity	10	22.2%	26	57.8%	5	11.1%	1	2.2%	3	6.7%	45	100.0%
Integrate knowledge of macro- and micro-economics into managerial decision making	5	10.9%	27	58.7%	12	26.1%	2	4.3%	0	.0%	46	100.0%
Applying statistical and/or quantitative techniques to problem solving in organizations	8	17.4%	24	52.2%	10	21.7%	4	8.7%	0	.0%	46	100.0%
Integrate marketing concepts/practices into executing global market strategies	12	26.7%	24	53.3%	5	11.1%	2	4.4%	2	4.4%	45	100.0%
Formulate business decisions by incorporating ethical standards and principles	13	28.3%	22	47.8%	8	17.4%	2	4.3%	1	2.2%	46	100.0%
Access, analyze, and communicate information using multiple means/media	11	23.9%	26	56.5%	6	13.0%	2	4.3%	1	2.2%	46	100.0%
Understands the nature of business ethics and the role of social responsibility	12	26.1%	21	45.7%	9	19.6%	1	2.2%	3	6.5%	46	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?**  
**Minor in Flight Daytona Beach**

	Strongly		Agree		Total	
	#	%	#	%	#	%
Understanding aerodynamic performance of aircraft powered by reciprocating and turbine engines	5	83.3%	1	16.7%	6	100.0%
Instrument flight skill	5	83.3%	1	16.7%	6	100.0%
Multi-engine/high performance aircraft operations	4	66.7%	2	33.3%	6	100.0%
Knowledge of Federal Aviation Regulations	4	66.7%	2	33.3%	6	100.0%
Ground/Flight training aptitude	4	66.7%	2	33.3%	6	100.0%

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**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?**  
**Minor in Humanities Daytona Beach**

	Strongly		Agree		Neutral		Total	
	#	%	#	%	#	%	#	%
Develop a broad knowledge of and appreciation for the complexity and magnitude of human productions in literature, the visual arts, architecture, religion, and myth	1	33.3%	0	.0%	2	66.7%	3	100.0%
Develop the ability to analyze and interpret works in the humanities	1	33.3%	0	.0%	2	66.7%	3	100.0%
Develop an understanding of the relationship between humans and nature and the human and divine, as relayed in cultural texts	0	.0%	0	.0%	3	100.0%	3	100.0%
Develop knowledge of and appreciation for aesthetics and moral values across cultures and historical periods,	0	.0%	0	.0%	3	100.0%	3	100.0%
Develop an understanding of the complexities of ethical decision-making, and to express your own responses to other thinkers	1	33.3%	0	.0%	2	66.7%	3	100.0%
Develop the ability to imagine situations from someone else's point of view, and to understand different notions of a life well-lived	0	.0%	1	33.3%	2	66.7%	3	100.0%

**To what extent has your experience at ERAU contributed to your development of the following skills or knowledge?**  
**Minor in International Relations Daytona Beach**

	Strongly		Agree		Neutral		Disagree		Strongly		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Understand the impact and role of globalization in world politics	7	53.8%	5	38.5%	1	7.7%	0	.0%	0	.0%	13	100.0%
Develop a knowledge and understanding of the history and culture of one or more world regions	6	46.2%	6	46.2%	1	7.7%	0	.0%	0	.0%	13	100.0%
Understand the complex interactions between the United States and one or more world regions	8	66.7%	4	33.3%	0	.0%	0	.0%	0	.0%	12	100.0%
Develop critical thinking and information gathering skills to conduct research into history and international relations	7	58.3%	5	41.7%	0	.0%	0	.0%	0	.0%	12	100.0%