

Embry-Riddle Aeronautical University

# General and Research Skills

Worldwide Alumni Survey: One Year after Graduation  
Class of 2014

Class of 2014  
Worldwide Campus

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## Methodology

The Worldwide Alumni Survey: One Year after Graduation - was administered using an online survey design. The survey was conducted in the Spring of 2016. Questions were developed by the Office of Institutional Research in consultation with Career Services Office, College Deans, Department Chairs, and Program Coordinators at the Worldwide campus. Core questions, common throughout all surveys, addressed educational goals, current employment status, overall ERAU satisfaction, and acquired general education and research skills. Each college and program was given the opportunity to incorporate additional questions specific to their graduates. Additionally, program-specific items meant to address student learning outcomes were incorporated. The following tables reflect the responses from the graduating class of 2014 for the Worldwide campus (n= 1094, response rate = 31%).

**General Skills**

**GENERAL SKILLS  
Usefulness to Current Job/Goal  
Worldwide Campus**

	M	n	Very Useful		Useful		Not Very Useful		Not at all Useful	
			#	%	#	%	#	%	#	%
Apply knowledge of college-level mathematics	2.8	640	133	20.8%	293	45.8%	174	27.2%	40	6.3%
Construct effective written documents for technical and non-technical audiences	3.3	639	268	41.9%	308	48.2%	41	6.4%	22	3.4%
Communicate ideas in non-written forms (oral and visual)	3.3	638	285	44.7%	298	46.7%	37	5.8%	18	2.8%
Conduct and report research in accordance with professional standards	3.1	641	235	36.7%	295	46.0%	77	12.0%	34	5.3%
Recognize the importance of ethical responsibility	3.3	638	295	46.2%	288	45.1%	38	6.0%	17	2.7%
Identify some important results of scientific inquiry and use scientific information in critical thinking and decision-making	3.1	641	205	32.0%	320	49.9%	88	13.7%	28	4.4%
Use technology to communicate ideas	3.3	636	295	46.4%	285	44.8%	38	6.0%	18	2.8%
Apply economic principles to identify and solve problems	2.9	637	172	27.0%	292	45.8%	122	19.2%	51	8.0%
Demonstrate an understanding of the values communicated through the humanities	2.9	637	167	26.2%	291	45.7%	135	21.2%	44	6.9%
Describe some of the historical and contemporary issues that affect societies	2.7	638	141	22.1%	260	40.8%	160	25.1%	77	12.1%
Recognize the complexity of human experience from a variety of perspectives	3.0	638	215	33.7%	287	45.0%	87	13.6%	49	7.7%

*NOTE: Includes only those alumni that graduated with an undergraduate degree. SOURCE: Worldwide Alumni Survey: One Year After Graduation. Class of 2014. (4-Very Useful, 3-Useful, 2-Not Very Useful, 1-Not at all Useful). Institutional Research (2016).*

**GENERAL SKILLS**  
**Rate ERAU Preparation**  
**Worldwide Campus**

	M	n	Very High Preparation		High Preparation		Moderate Preparation		Little Preparation	
			#	%	#	%	#	%	#	%
Apply knowledge of college-level mathematics	2.9	634	169	26.7%	258	40.7%	182	28.7%	25	3.9%
Construct effective written documents for technical and non-technical audiences	3.1	630	238	37.8%	258	41.0%	121	19.2%	13	2.1%
Communicate ideas in non-written forms (oral and visual)	3.0	632	204	32.3%	243	38.4%	155	24.5%	30	4.7%
Conduct and report research in accordance with professional standards	3.1	631	226	35.8%	260	41.2%	126	20.0%	19	3.0%
Recognize the importance of ethical responsibility	3.1	631	230	36.5%	260	41.2%	127	20.1%	14	2.2%
Identify some important results of scientific inquiry and use scientific information in critical thinking and decision-making	3.0	633	200	31.6%	267	42.2%	147	23.2%	19	3.0%
Use technology to communicate ideas	3.2	632	243	38.4%	254	40.2%	122	19.3%	13	2.1%
Apply economic principles to identify and solve problems	2.9	629	170	27.0%	269	42.8%	174	27.7%	16	2.5%
Demonstrate an understanding of the values communicated through the humanities	2.9	631	160	25.4%	267	42.3%	182	28.8%	22	3.5%
Describe some of the historical and contemporary issues that affect societies	2.8	628	145	23.1%	259	41.2%	195	31.1%	29	4.6%
Recognize the complexity of human experience from a variety of perspectives	2.9	632	179	28.3%	264	41.8%	167	26.4%	22	3.5%

*NOTE: Includes only those alumni that graduated with an undergraduate degree. SOURCE: Worldwide Alumni Survey: One Year After Graduation. Class of 2014. (4-Very High Preparation, 3-High Preparation, 2-Moderate Preparation, 1-Little Preparation). Institutional Research (2016).*

**Research Skills**

**RESEARCH SKILLS  
Usefulness to Current Job/Goal  
Worldwide Campus**

	M	n	Very Useful		Useful		Not Very Useful		Not at all Useful	
			#	%	#	%	#	%	#	%
Define and/or articulate a research problem	3.2	640	231	36.1%	315	49.2%	63	9.8%	31	4.8%
Design a course of action to solve a research problem	3.2	635	246	38.7%	290	45.7%	66	10.4%	33	5.2%
Apply ethical principles in research methodologies and in the application of research results	3.1	635	229	36.1%	292	46.0%	80	12.6%	34	5.4%
Conduct research independently and/or collaboratively	3.2	637	253	39.7%	289	45.4%	62	9.7%	33	5.2%
Reach decisions or conclusions based on the analysis and synthesis of evidence	3.3	635	274	43.1%	282	44.4%	56	8.8%	23	3.6%
Communicate research results	3.2	633	275	43.4%	271	42.8%	56	8.8%	31	4.9%

*NOTE: Includes only those alumni that graduated with an undergraduate degree. SOURCE: Worldwide Alumni Survey: One Year After Graduation. Class of 2014. (4-Very Useful, 3-Useful, 2-Not Very Useful, 1-Not at all Useful). Institutional Research (2016).*

**RESEARCH SKILLS**  
**Rate ERAU preparation**  
**Worldwide Campus**

	M	n	Very High Preparation		High Preparation		Moderate Preparation		Little Preparation	
			#	%	#	%	#	%	#	%
Define and/or articulate a research problem	3.1	630	208	33.0%	266	42.2%	140	22.2%	16	2.5%
Design a course of action to solve a research problem	3.0	631	204	32.3%	258	40.9%	148	23.5%	21	3.3%
Apply ethical principles in research methodologies and in the application of research results	3.0	628	208	33.1%	254	40.4%	143	22.8%	23	3.7%
Conduct research independently and/or collaboratively	3.1	630	236	37.5%	241	38.3%	134	21.3%	19	3.0%
Reach decisions or conclusions based on the analysis and synthesis of evidence	3.1	631	230	36.5%	250	39.6%	136	21.6%	15	2.4%
Communicate research results	3.1	627	247	39.4%	238	38.0%	127	20.3%	15	2.4%

*NOTE: Includes only those alumni that graduated with an undergraduate degree. SOURCE: Worldwide Alumni Survey: One Year After Graduation. Class of 2014. (4-Very High Preparation, 3-High Preparation, 2-Moderate Preparation, 1-Little Preparation). Institutional Research (2016).*