AUBURN
UNIVERSITY

Theme: Academic Challenge

	Mean	n	SE	Compared with EN			Compared with AU		
				Mean	Sig.	Effect Size	Mean	Sig.	Effect Size
Engagement Indicator: Higher-Order Learning	*41.21*	*66*	*1.71*	*39.57*		*0.12*	*39.67*		*0.11*
During the current school year, how much has your coursework emphasized the following? 1=Very little, 2=Some, 3=Quite a bit, 4=Very much									
Applying facts, theories, or methods to practical problems or new situations	3.69	68	0.07	3.45	***	0.42	3.23	***	0.80
Analyzing an idea, experience, or line of reasoning in depth by examining its parts	3.28	67	0.12	3.17		0.11	3.07	*	0.21
Evaluating a point of view, decision, or information source	2.34	68	0.13	2.47		-0.12	2.77	***	-0.40
Forming a new idea or understanding from various pieces of information	2.97	67	0.12	2.82		0.15	2.86		0.11
Engagement Indicator: Reflective & Integrative Learning	*29.47*	*67*	*1.34*	*31.99*	***	*-0.23*	*36.47*	*****	*-0.64*
During the current school year, how often have you? 1=Never, 2=Sometimes, 3=Often, 4=Very often									
Combined ideas from different courses when completing assignments	3.18	67	0.09	3.03		0.20	3.06		0.16
Connected your learning to societal problems or issues	2.04	67	0.11	2.30	**	-0.29	2.72	***	-0.76
Included diverse perspectives (political, religious, racial/ethnic, gender, etc.) in course discussions or assignments	1.57	67	0.09	1.86	***	-0.39	2.38	***	-1.10
Examined the strengths and weaknesses of your own views on a topic or issue	2.26	68	0.12	2.54	**	-0.28	2.72	***	-0.46
Tried to better understand someone else's views by imagining how an issue looks from his or her perspective	2.44	68	0.13	2.60		-0.15	2.83	***	-0.36
Learned something that changed the way you understand an issue or concept	2.72	68	0.10	2.76		-0.05	2.85		-0.16
Connected ideas from your courses to your prior experiences and knowledge	3.13	68	0.09	3.12		0.01	3.19		-0.08
Engagement Indicator: Learning Strategies	*32.99*	*59*	*1.60*	*35.47*		*-0.20*	*38.47*	*****	*-0.45*
During the current school year, how often have you? 1=Never, 2=Sometimes, 3=Often, 4=Very often									
Identified key information from reading assignments	2.62	61	0.11	2.85	**	-0.27	3.12	***	-0.58
Reviewed your notes after class	2.72	61	0.11	2.78		-0.07	2.84		-0.14
Summarized what you learned in class or from course materials	2.61	59	0.12	2.69		-0.09	2.81		-0.22
Engagement Indicator: Quantitative Reasoning	*36.67*	*66*	*1.84*	*36.71*		*0.00*	*30.64*	*****	*0.40*
During the current school year, how often have you? 1=Never, 2=Sometimes, 3=Often, 4=Very often									
Reached conclusions based on your own analysis of numerical information (numbers, graphs, statistics, etc.)	3.25	67	0.10	3.28		-0.04	2.73	***	0.64
Used numerical information to examine a real-world problem or issue (unemployment, climate change, public health, etc.)	2.48	67	0.14	2.53		-0.04	2.39		0.08
Evaluated what others have concluded from numerical information	2.71	66	0.12	2.70		0.01	2.47	**	0.25

Notes: Each Engagement Indicator is expressed on a 60-point scale. First, all items that contribute to an Engagement Indicator are converted to a 60-point scale. For example, items with four response options (e.g., Never, Sometimes, Often, and Very often) are recoded with values of 0, 20, 40, or 60. Second, recoded values for each component item are averaged together. *p<.10 **p<.05 ***p<.01 (2-tailed)

Theme: Learning with Peers

	Mean	n	SE	Compared with EN			Compared with AU		
				Mean	Sig.	Effect Size	Mean	Sig.	Effect Size
Engagement Indicator: Collaborative Learning	*40.53*	*66*	*1.74*	*40.73*		*-0.01*	*37.18*	***	*0.24*
During the current school year, how often have you? 1=Never, 2=Sometimes, 3=Often, 4=Very often									
Asked another student to help you understand course material	2.99	71	0.11	2.86		0.14	2.68	***	0.33
Explained course material to one or more students	3.07	69	0.10	3.05		0.02	2.94		0.16
Prepared for exams by discussing or working through course material with other students	2.88	69	0.12	2.95		-0.07	2.78		0.10
Worked with other students on course projects or assignments	3.16	68	0.10	3.31		-0.18	3.05		0.13
Engagement Indicator: Discussions with Diverse Others	*45.98*	*61*	*1.68*	*42.67*	***	*0.25*	*42.00*	****	*0.30*
During the current school year, how often have you had discussions with people from the following groups:1=Never, 2=Sometimes, 3=Often, 4=Very often									
People from a race or ethnicity other than your own	3.07	61	0.11	3.12		-0.06	3.10		-0.03
People from an economic background other than your own	3.25	61	0.10	3.12		0.17	3.13		0.15
People with religious beliefs other than your own	3.43	61	0.10	3.12	***	0.40	3.02	***	0.52
People with political views other than your own	3.46	61	0.10	3.18	***	0.36	3.15	***	0.40

Theme: Experiences with Faculty

	Mean	n	SE	Compared with EN			Compared with AU		
				Mean	Sig.	Effect Size	Mean	Sig.	Effect Size
Engagement Indicator: Student-Faculty Interaction	*26.79*	*67*	*1.91*	*22.37*	****	*0.28*	*26.08*		*0.05*
During the current school year, how often have you? 1=Never, 2=Sometimes, 3=Often, 4=Very often									
Talked about career plans with a faculty member	2.47	68	0.12	2.29		0.18	2.56		-0.09
Worked with a faculty member on activities other than coursework (committees, student groups, etc.)	2.31	67	0.14	1.97	**	0.30	2.13		0.16
Discussed course topics, ideas, or concepts with a faculty member outside of class	2.37	68	0.12	2.21		0.16	2.31		0.06
Discussed your academic performance with a faculty member	2.16	68	0.11	2.01		0.17	2.22		-0.07
Engagement Indicator: Effective Teaching Practices	*33.13*	*67*	*1.65*	*37.74*	*****	*-0.34*	*40.26*	*****	*-0.53*
During the current school year, to what extent have your instructors done the following? 1=Never, 2=Sometimes, 3=Often, 4=Very often									
Clearly explained course goals and requirements	2.76	67	0.11	3.06	***	-0.33	3.18	***	-0.47
Taught course sessions in an organized way	2.81	67	0.11	3.02	*	-0.23	3.11	***	-0.33
Used examples or illustrations to explain difficult points	2.97	67	0.11	3.13		-0.18	3.21	**	-0.27
Provided feedback on a draft or work in progress	2.12	67	0.12	2.41	**	-0.30	2.67	***	-0.56
Provided prompt and detailed feedback on tests or completed assignments	2.62	66	0.10	2.80	*	-0.22	2.89	***	-0.33

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NSSE (National Survey of Student Engagement)
Seniors: Multi-Year Engagement Indicators
2013-2017 Combined Data
Aerospace Engineering

AUBURN UNIVERSITY

Theme: Campus Environment

	Mean	n	SE	Compared with EN			Compared with AU		
				Mean	Sig.	Effect Size	Mean	Sig.	Effect Size
Engagement Indicator: Quality of Interactions	*46.00*	*56*	*1.18*	*44.15*		*0.21*	*43.25*	****	*0.31*
Indicate the quality of your interactions with the following people at your institution: 1=Poor, 2, 3, 4, 5, 6, 7=Excellent									
Students	6.03	59	0.16	6.02		0.01	5.98		0.04
Academic advisors	6.20	59	0.11	5.57	***	0.75	5.10	***	1.30
Faculty	5.27	59	0.16	5.40		-0.11	5.53		-0.21
Student services staff (career services, student activities, housing, etc.)	5.37	59	0.24	5.44		-0.04	5.43		-0.03
Other administrative staff and offices (registrar, financial aid, etc.)	5.69	59	0.22	5.49		0.12	5.33		0.21
Engagement Indicator: Supportive Environment	*33.79*	*57*	*1.65*	*35.02*		*-0.10*	*36.43*		*-0.21*
How much does your institution emphasize the following? 1=Very little, 2=Some, 3=Quite a bit, 4=Very much									
Providing support to help students succeed academically	3.11	57	0.11	3.13		-0.02	3.14		-0.04
Using learning support services (tutoring services, writing center, etc.)	3.00	57	0.12	3.08		-0.09	3.10		-0.11
Encouraging contact among students from different backgrounds (social, racial/ethnic, religious, etc.)	2.11	56	0.12	2.23		-0.13	2.40	**	-0.32
Providing opportunities to be involved socially	3.05	57	0.12	3.06		-0.01	3.16		-0.12
Providing support for your overall well-being (recreation, health care, counseling, etc.)	2.98	57	0.12	3.07		-0.10	3.13		-0.17
Helping you manage your non-academic responsibilities (work, family, etc.)	1.91	57	0.11	2.02		-0.13	2.10	*	-0.23
Attending campus activities and events (performing arts, athletic events, etc.)	3.16	57	0.11	3.09		0.08	3.13		0.04
Attending events that address important social, economic, or political issues	2.19	57	0.11	2.31		-0.14	2.41	*	-0.26

High-Impact Practice Items

About how many of your courses at this institution have included a community-based project (service-learning)? 1=None, 2=Some, 3=Most, 4=All

	Mean	n	SE	Compared with EN			Compared with AU		
				Mean	Sig.	Effect Size	Mean	Sig.	Effect Size
Number of courses	1.27	59	0.07	1.37		-0.19	1.65	***	-0.71

	%	n	Compared with EN			Compared with AU		
			%	Sig.	% Diff.	%	Sig.	% Diff.
Which of the following have you done or do you plan to do before you graduate? (% plan to do or done)								
Internship, co-op, field experience, student teaching, or clinical placement	51%	59	79%	***	-28%	78%	***	-27%
Formal leadership role in a student organization or group	74%	58	55%	***	19%	57%	***	17%
Learning community or some other formal program where groups of students take two or more classes together	29%	59	20%		8%	28%		1%
Study abroad program	19%	59	20%		-1%	27%		-9%
Work with a faculty member on a research project	31%	59	39%		-9%	41%		-10%
Culminating senior experience (capstone course, senior project or thesis, comprehensive exam, portfolio, etc.)	79%	58	85%		-6%	66%	**	13%

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