# Factor and Question Analysis: Select 6 Comparison for Engineering Major: Chemical/Molecular

	•	Your Data  Your Select 6 Data There are 6 institutions in this compa  N Mean Std Dev Sel 1 Sel 2 Sel 3 Sel 4 Sel 5 Sel 6 Range										son group	o.		Compariso	on to Sel	ect 6
		N	Mean		Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Range o	f Means	Wt	Std	Difference	Arrow	Rank
	<u> </u>			Dev							Min	Max	Mean	Dev	in Means		Among 7
<u> -</u>	তে প্রাণাজন প্রাণাজন ক্রিটালেল প্রাণাজন ক্রিটালেল ক্রিটালেল ক্রিটালেল	/HE	16	:SIO	3,02	3,16	G	(e)	ं शह		A \$15	<u>ទី៧៧៤</u> %	4580	1, 14			1 40 5
Q13.	Instruction and Faculty in your Engineering Major Quality of: Teaching	48	5.17	1.16	5.44	4.00	3.00	4.78	4.89	4.80	3.00	5.44	4.88	1.19	0.29	<b>A</b>	2
Q14.	Instruction and Faculty in your Engineering Major Quality of: Feedback on assignments (other than grades)	48	3.85	1.14	4.71	3.92	3.57	3.56	4.04	4.40	3.56	4.71	4.26	1.32	-0.41	•	5
Q15.	Instruction and Faculty in your Engineering Major Quality of: Student/faculty interaction	47	4.34	1.29	4.91	4.50	3.57	4.22	4.74	5.00	3.57	5.00	4.69	1.35	-0.35	•	5
ି ନ୍ <b>ର</b> ଣ	্রাত্র প্রকারমার কা Melfar, Congresses	, ive	\$ 5.7	(i) (e) (i)	E a vo	7.06	4) 1496	313	3.231	is re	i di ji	- alin	3 76	lulu.	6.00		R
Q20.	Satisfaction with: Grades in major courses accurately reflecting students' level of performance	47	4.96	1.74	4.96	4.65	4.71	5.40	5.08	4.93	4.65	5.40	4.96	1.63	0.00		4
Q21.	Satisfaction with: Accessibility of major course instructors outside of class	48	5.48	1.10	5.65	5.27	4.86	5.07	5.26	5.27	4.86	5.65	5.39	1.25	0.09	•	2
Q22.	Satisfaction with: Responsiveness to major course instructors to student concerns	46	5.20	1.23	5.49	4.36	4.00	5.40	5.33	4.73	4.00	5.49	5.13	1.39	0.07	•	4
Q23.	Satisfaction with: Amount of work required of in major courses	48	4.04	1.58	5.00	4.54	4.86	3.87	4.27	4.13	3.87	5.00	4.61	1.51	-0.57	~	6
Q30.	Satisfaction with: Average size of major courses	48	5.94	1.09	5.71	5.96	4.50	5.40	6.07	5.67	4.50	6.07	5.73	1.25	0.21	•	3
Q31.	Satisfaction with: Availability of courses in major	48	6.04	1.29	5.59	4.88	3.67	5.13	5.59	5.67	3.67	6.04	5.37	1.62	0.67	•	1
ନିମ୍ନ	(का की डिरॉक्स व्हेंबेर की किए)तत्तरवाणोगाती	Ą.	୍ ଅନ୍ତି	Side	rs.go		E 46.	TAT (10).		4.75	\$ 340	5 3	୍ (ଗର	~ 'n 'n 37'	Suggior Const		The second
Q24.	Satisfaction with: Engineering curriculum instructors presentation of technology issues	48	4.73	1.35	5.46	4.31	3.57	4.87	4.96	4.73	3.57	5.46	4.97	1.40	-0.24	٧	4
Q25.	Satisfaction with: Opportunities for practical experiences within Undergraduate curriculum	48	4.71	1.61	4.99	4.12	3.00	5.07	4.07	5.13	3.00	5.13	4.62	1.63	0.09	<b>A</b>	4
Q26.	Satisfaction with: Opportunities for interaction with practitioners	37	3.92	1.53	4.61	3.60	2.33	4.71	4.54	4.47	2.33	4.71	4.33	1.50	-0.41	•	5
Q33.	Satisfaction with: Amount of work in relationship to what was learned	48	4.73	1.40	5.37	4.00	4.17	4.20	4.26	4.60	4.00	5.37	4.72	1.58	0.01	<b>A</b>	2
Ferei	कां 🗘 गिञ्चाल 🛠 हिर्दिक्षणानम्बागासः अविभागविक्षः	િ હૈાફું	香碗。		\$ 40			F.5.46	ু দুন		1350				(A)	part of the second	i migang
Q27.	Satisfaction with: Value derived from team experiences	48	5.23		5.68	4.72	3.67	5.93	5.41	5.80	3.67	5.93	5.44	1.36	-0.21		5
	Satisfaction with: Value of Engineering program student organization activities	41	4.73	1.85	5.41	4.35	4.00	4.67	4.38	4.46	4.00	5.41	4.86	1.60	-0.21 -0.13	*	2
Q29.	Satisfaction with: Leadership opportunities in Engineering program's extracurricular activities	38	5.03	1.74	5.27	4.55	3.75	4.40	4.53	4.67	3.75	5.27	4.86	1.59	0.17	. 🛦	2

		Y	our Da	ta			There :	-			Data compari	son group	<b>o</b> .		Compariso	n to Sel	ect 6
		N	Mean								Wt	Std	Difference	Arrow	Rank		
				Dev							Min	Max	Mean	Dev	in Means		Among 7
ି ଲେଖ	्र दिः दिः वृत्तात्त्रवर्णामात् । सिराङ्कवरणस्य	.65E	ê 000	w. 867	.5 ( <b>3</b> %)	ā, Gjō)	4: (\$10		\$ 17	3 12 kg		3 m/c	5.71	20/4	1.00		
Q36.	Advising/Computing - Advising/Computing - Satisfaction with: Quality of computing resources	48	6.00	0.87	5.88	5.00	4.50	5.71	5.07	5.80	4.50	6.00	5.51	1.48	0.49	<b>A</b>	1
Face	ল উ নিয়াপিপে স্কালিকাহ	1215	559		િફ હેમ્પ્રી	( ) (E)	20.55	ું હું હું	5.51	િલ્ફાર્યો	4 30	ે એક	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Q37.	Classmates - Satisfaction with characteristics of your fellow students': Academic quality	48	5.88	0.93	5.91	5.35	4.50	6.07	6.00	6.00	4.50	6.07	5.80	1.21	0.08	<b>A</b>	5
Q38.	Classmates - Satisfaction with characteristics of your fellow students': Ability to work in teams	48	5.31	1.37	5.82	5.19	4.83	5.80	5.07	5.87	4.83	5.87	5.55	1.34	-0.24	▼	4
Q39.	Classmates - Satisfaction with characteristics of your fellow students': Level of camaraderie	48	5.73	1.55	6.07	6.00	5.33	6.07	5.44	5.87	5.33	6.07	5.90	1.33	-0.17	•	5
িন্নৰা	কা ় টোলকা উল্পোদ্ধ নামত এক প্রিল্লেল্ডান	រាតិ	3.7	3.5	3.70	( ejgl	يرق ال		મું હૈંદ	. 3 lo	5.97	TT \$1 857					The state of
Q40.	Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search	43	5.42	1.79	5.89	3.96	3.83	4.73	4.32	6.00	3.83	6.00	5.12	1.74	0.30	<b>A</b>	3
Q41.	Career Services - Career Services - Satisfaction with: Geographic distribution of companies recruiting on campus	43	4.91	1.52	5.48	3.64	2.33	4.67	4.05	5.29	2.33	5.48	4.74	1.79	0.17	. •	3
Q42.	Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities	38	4.24	1.56	4.77	3.84	3.40	5.33	4.47	4.69	3.40	5.33	4.57	1.61	-0.33	<b>*</b>	5
Q43.	Career Services - Career Services - Satisfaction with: Number of companies recruiting on campus	44	5.57	1.62	6.20	3.88	2.50	5.40	4.61	6.08	2.50	6.20	5.31	1.69	0.26	<b>A</b> .	3
Q44.	Career Services - Career Services - Satisfaction with: Quality of companies recruiting on campus	45	5.64	1.48	6.18	4.32	2.83	5.64	5.39	6.31	2.83	6.31	5.56	1.48	0.08	<b>A</b>	3 .

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group ▲: UW-Madison has a higher mean than the mean of the comparative group

		Y	our Da	ta			There		our Se			son group	o.		Compariso	n to Sel	ect 6
		N	Меал		Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Range	of Means	Wt	Std	Difference	Arrow	Rank
				Dev							Min	Max	Mean	Dev	in Means		Among 7
Facet	কু কি প্ৰস্কালন টাইপ্ৰাৰ্ট্নন জি দিন্দ্ৰাৰীলন ইলাপান্ত্ৰ	(Ve	\$ 16°	ે ફ્લિ	5 32	i dep	3.2	-5 9	5 .9	କ ରିଖ	. ē./.	أ دري	T. (10)	100 <b>\$</b> (J <sub>1</sub>			
Q48.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design experiments	48	5.29	1.15	5.84	4.46	5.17	5.73	4.63	5.57	4.46	5.84	5.34	1.23	-0.05	▼	4
Q49.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Conduct experiments	48	5.92	0.91	6.01	5.35	5.33	6.07	4.81	5.57	4.81	6.07	5.63	1.18	0.29	•	3
Q50.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Analyze and interpret data	48	6.19	0.88	6.16	5.62	5.00	6.13	6.11	5.93	5.00	6.19	5.99	0.94	0.20	•	1
Q51.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs	48	5.65	1.01	5.82	4.69	5.50	5.93	5.52	5.79	4.69	5.93	5.57	1.18	0.08	•	4
Q52.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Function on multidisciplinary teams	48	5.48	1.50	5.73	4.50	5.00	5.67	5.37	5.36	4.50	5.73	5.40	1.40	0.08	. 🛦	3
Faci	வு இதிரைகள் வி. இந்து நிறையிருள்ள இது வருக்கும் கூறு முற்று குறையிருள்ள இது கூறு குறையிருள்ள இது கூறு குறையிரு	4Vå	ୁ ୬ଟି	11 (517)	5 5 5	<b>原在方面</b>	9.47	୍ ଅନ୍ତମ	E.36	346	7.7	5 %	\$ Xe7		ic 16		T
Q56.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities	48	4.77	1.56	5.81	4.88	5.83	5.40	5.22	4.93	4.77	5.83	5.44	1.42	-0.67	▼	7
Q69.	To what degree did your engineering education enhance your ability to understand the impact of engineering solutions in: A global/societal context	48	5.19	1.45	5.29	4.54	4.50	4.53	5.19	5.29	4.50	5.29	5.04	1.37	0.15	<b>A</b> -	4

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		Y	our Da	ta			There	_			Data compari	son group	o		Compariso	n to Sele	ect 6
		N	Mean		Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Range o	f Means	Wt	Std	Difference	Arrow	Rank
				Dev	1						Min	Max	Mean	Dev	in Means		Among 7
350	ବ୍ୟାଦିଆରେ ବ୍ୟାଦର୍ଶର ମୁନ୍ତି । ଅଧ୍ୟକ୍ଷ	4 <b>.</b> [6	3.50	ର ଜଣ	S. <b>6</b> 0	4.54	ត តិ	7 a 246	5 10	G: (NC)	T & 3%		\$ 50 T	101 000	( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	e <del>e</del> gewood w	
Q58.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using oral progress reports	46	4.98	1.29	5.66	4.91	5.50	5.00	5.11	5.79	4.91	5.79	5.39	1.29	-0.41	<b>V</b>	6
Q59.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using written progress reports	47	5.98	0.89	6.01	5.28	5.83	5.67	5.63	5.86	5.28	6.01	5.77	1.15	0.21	<b>A</b>	2
Q62.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use modern engineering tools specific to your primary academic major	46	5.74	1.24	5.63	4.46	5.83	5.87	5.41	5.64	4.46	5.87	5.43	1.30	0.31	•	3
Q67.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Pilot test a component prior to implementation	44	4.43	1.36	4.95	3.83	4.75	4.08	3.91	4.50	3.83	4.95	4.48	1.55	-0.05	▼	4
Q68.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use text materials to support project design	47	5.62	1.23	5.67	5.32	5.40	5.33	5.65	5.71	5.32	5.71	5.57	1.15	0.05	<b>.</b>	4

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group ▲: UW-Madison has a higher mean than the mean of the comparative group

# Factor and Question Analysis: Select 6 Comparison for Engineering Major: Chemical/Molecular

		Yo	our Da	ıta			There		our Se	p		Compariso	n to Sele	ect 6			
		N	Mean	Std Dev	Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Range o	f Means	Wt Mean	Std Dev	Difference in Means	Arrow	Rank
	The property of the party of th										Min	Max	ivicari	Dev	in ivieans		Among 7
Fagi	কা বি: ঐত্যব্যাপু রিনক্সোলিকভিন্ন স্থানা (বিল্লাস্থান) ইনকালিকভি		ું ક€	il is	6 36	ର ଅଟି	i sali	\$ 50	5,730		5.25	ં હોઇ					
Q45.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics	48	6.00	1.04	6.15	5.54	5.33	5.60	6.11	5.86	5.33	6.15	5.93	1.05	0.07		3
Q46.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of science	48	6.04	0.89	6.15	5.46	5.17	5.73	6.19	6.21	5.17	6.21	5.97	1.03	0.07	•	4
Q47.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of engineering	48	6.21	1.08	6.35	5.50	5.83	6.13	5.88	6.29	5.50	6.35	6.08	1.07	0.13	•	3
Q53.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Identify engineering problems	48	5.69	0.98	5.93	5.46	5.33	5.87	5.48	5.86	5.33	5.93	5.74	1.05	-0.05	₩	4
Q54.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Formulate engineering problems	48	5.56	0.98	5.76	5.00	5.17	5.67	5.07	5.57	5.00	5.76	5.47	1.14	0.09	<b>A</b>	4
Q55.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering problems	48	6.27	0.81	6.07	5.58	5.17	5.53	5.81	6.00	5.17	6.27	5.85	1.06	0.42	•	· . 1
Q61.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand contemporary issues	47	5.23	1.34	5.52	4.31	5.17	4.93	5.37	5.64	4.31	5.64	5.23	1.36	0.00		4
行合体	वर् थि। विक्लाल्य डिएक्सेल्यक्स डिप्पोर देस उक्तान्यस्थलक	16	୍ର (ଗଣ)	- 1 3/6 - 1 3/6	\$ 13\g	ો ઉજ્		Tháisi -	್ಯಾಣ	1 3/3/201			) (\$/54)				्र क्षेत्र हाल है।
	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Built on knowledge from previous course work	48	5.90	0.98	5.92	5.08	5.00	5.67	5.63	5.71	5.00	5.92	5.65	1.16	0.25	<b>A</b>	2
Q65.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Built on skills from previous course work	48	5.83	1.07	5.99	4.88	5.33	5.53	5.70	5.64	4.88	5.99	5.65	1.19	0.18	<b>.</b>	2
Q66.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Incorporated engineering standards	47	5.06	1.31	5.62	4.69	5.33	5.27	4.74	5.21	4.69	5.62	5.23	1.29	-0.17	▼	<b>5</b>
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## Factor and Question Analysis: Select 6 Comparison for Engineering Major: Chemical/Molecular

		Y	our Da	ıta			There				Data compari	son grou	p	·	Comparis	on to Sel	ect 6
		N	Mean	Std Dev	Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Range		Wt Mean	Std Dev	Difference in Means	Arrow	Rank Among 7
Fee	কে, <sup>নিই</sup> ্টিএলবার্ন হিপ্রসালনাকন বিভাগন্ত	ોહ			To 30	4.9F	કે હ	· Ori	ক <i>্</i> ছি।	4.94	Min	Max	୍ର ଓଡ଼		75.45 Mil.	on on the same	
Q72.	System Design - To what degree did your system design experience address the following: Addressed Economic issues	- 48	5.42	1.46	5.52	5.19	4.67	6.20	5.85	5.50	4.67	6.20	5.55	1.32	-0.13	<b>▼</b> .	5
Q73.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues	48	4.58	1.53	5.61	4.19	4.00	5.27	5.37	5.50	4.00	5.61	5.22	1.50	-0.64		5
Q74.	System Design - To what degree did your system design experience address the following: Addressed Social issues	48	3.75	1.59	4.75	3.81	3.17	4.60	4.42	4.21	3.17	4.75	4.41	1.57	-0.66	▼ .	6
Q75	System Design - To what degree did your system design experience address the following: Addressed Political issues	48	3.35	1.59	4.47	3.62	2.33	3.60	3.81	3.57	2.33	4.47	3.97	1.65	-0.62	▼	6
Q76	System Design - To what degree did your system design experience address the following: Addressed Ethical issues	48	3.96	1.65	5.29	4.69	4.17	4.67	4.96	4.36	3.96	5.29	4.94	1.49	-0.98	*	7
Q77.	System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues	48	4.83	1.39	5.66	4.38	4.67	5.93	5.41	5.43	4.38	5.93	5.37	1.41	-0.54	▼	5
Q78.	System Design - To what degree did your system design experience address the following: Addressed Manufacturability issues	48	5.23	1.34	5.72	4.24	3.83	5.53	5.12	5.36	3.83	5.72	5.25	1.43	-0.02	<b>♥</b>	4
Q79.	System Design - To what degree did your system design experience address the following: Addressed Sustainability issues	48	5.15	1.44	5.43	4.08	3.67	4.07	5.41	5.36	3.67	5.43	4.99	1.59	0.16		4
	ion ikk ilajoonahijony isaniilittias	115	To distil	(1):	[\$. 3½],	41.00	3.276		3.5		1 / A A	Adjorn.	73.50		10001948		
Q80.	Laboratory Facilities <td>48</td> <td>5.56</td> <td>1.06</td> <td>5.44</td> <td>4.15</td> <td>3.67</td> <td>5.40</td> <td>5.65</td> <td>5.07</td> <td>3.67</td> <td>5.65</td> <td>5.15</td> <td>1.42</td> <td>0.41</td> <td><b>A</b></td> <td>2</td>	48	5.56	1.06	5.44	4.15	3.67	5.40	5.65	5.07	3.67	5.65	5.15	1.42	0.41	<b>A</b>	2
Q81.	Laboratory Facilities <td>48</td> <td>5.50</td> <td>1.24</td> <td>5.21</td> <td>3.92</td> <td>3.50</td> <td>5.47</td> <td>5.50</td> <td>5.57</td> <td>3.50</td> <td>5.57</td> <td>5.03</td> <td>1.46</td> <td>0.47</td> <td>•</td> <td>3</td>	48	5.50	1.24	5.21	3.92	3.50	5.47	5.50	5.57	3.50	5.57	5.03	1.46	0.47	•	3

#### Factor and Question Analysis: Select 6 Comparison for Engineering Major: Chemical/Molecular

		Y	our Da	ıta			There	<b>Y</b> are 6 in:		Compariso	n to Sel	ect 6					
		N	Mean		Sei 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Range o	f Means	Wt	Std	Difference	Arrow	Rank
_				Dev			]				Min	Max	Mean	Dev	in Means		Among 7
Facel	ন্য াই: ত্রিপর্যায়। শিংনজ্যানান নির্দিনে গ্রিপর্যাঞ্ছ	1,3	\$ 76	1 2/2	17 67	4.23	3. 6.1	\$ 19	ို့ ၂ (၅)	34	440	- 6 6 T	୍ ଓଡ଼ି	$J_j = 0$	36.46	N 2. C	
Q83.	The Bottom Line - Overall Satisfaction - Extent that the Undergraduate Engineering program experience fulfill expectations	48	5.25	1.31	5.25	4.08	3.14	4.40	4.52	5.15	3.14	5.25	4.74	1.52	0.51	<b>A</b>	2
Q84.	Comparing the expense to the quality of education, rate the value of the investment made in Undergraduate Engineering program	48	5.56	1.43	5.67	3.73	3.83	5.00	3.85	4.71	3.73	5.67	4.80	1.72	0.76	•	2
Q85.	How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend	48	5.21	1.72	5.71	4.56	1.71	4.80	3.70	5.36	1.71	5.71	4.88	1.88	0.33	•	3
Q86.	How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering School to a close friend	48	5.79	1.26	6.01	4.65	4.57	6.47	4.67	5.71	4.57	6.47	5.51	1.58	0.28	•	3

		Y	our Da	ıta			There	_	our Se			son group	<b>).</b>		Compariso	on to Sel	ect 6
		N	Mean		Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Range o	f Means	Wt	Std	Difference	Arrow	Rank
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হৈছে। ভাগত	ই ানিপ্তেক বাদক্ষাল্প(হ) ক্রাকিত বিভানক তেন্স্রাক্তি র ত প্রক্রিক										191001-1		Transfer .				
Q16.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Calculus	44	4.86	1.50	5.55	5.00	5.50	5.67	5.22	5.21	4.86	5.67	5.38	1.42	-0.52	₩	7
Q17.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Differential Equations	47	4.38	1.74	4.66	5.92	5.50	5.20	4.78	5.00	4.38	5.92	5.00	1.80	-0.62	¥	7
Q18.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics	45	4.00	1.70	4.42	3.83	5.17	4.67	4.40	4.50	3.83	5.17	4.38	1.83	-0.38	▼	6
Q19.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Chemistry	47	5.72	1.12	5.91	4.77	6.00	6.07	5.69	5.86	4.77	6.07	5.68	1.30	0.04	<b>A</b>	5
Q32.	Satisfaction with: Quality of Engineering classrooms	47	4.94	1.21	4.72	4.52	4.17	5.40	5.56	5.27	4.17	5.56	4.93	1.49	0.01	*	4
Q34.	Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty	47	4.30	1.92	5.49	4.69	3.17	4.67	4.74	5.13	3.17	5.49	5.03	1.74	-0.73	<b>▼</b>	6
Q35.	Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by non-faculty	27	4.81	1.22	5.98	4.10	3.50	4.62	4.53	5.00	3.50	5.98	5.16	1.64	-0.35	•	3
Q60.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Recognize need to engage in lifelong learning	48	5.67	1.45	5.73	4.77	5.67	5.87	5.30	5.71	4.77	5.87	5.50	1.47	0.17	<b>A</b>	4
Q82.	Course Comparison - Quality of teaching in your Engineering courses compare to the quality of teaching in Non-Engineering courses on this campus	48	5.42	1.22	5.62	4.48	3.00	4.20	4.33	4.64	3.00	5.62	4.87	1.59	0.55	<b>.</b>	2

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group ▲: UW-Madison has a higher mean than the mean of the comparative group

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	Instruction and Faculty in your Engineering Major Quality of: Teaching	48	5.17	1.16	4.86	1.21	3.00	5.72	0.31	<b>A</b>	5	5.09	1.19	3.00	6.00	0.08	<b>A</b>	21
	Instruction and Faculty in your Engineering Major Quality of: Feedback on assignments (other than grades)	48	3.85	1.14	4.30	1.28	3.33	4.79	-0.45	•	17	4.58	1.27	3.33	6.00	-0.73	•	37
Q15.	Instruction and Faculty in your Engineering Major Quality of: Student/faculty interaction	47	4.34	1.29	4.87	1.37	3.57	5.50	-0.53	, <b>V</b>	19	5.22	1.42	3.57	6.61	-0.88	•	37
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	Satisfaction with: Grades in major courses accurately reflecting students' level of performance	47	4.96	1.74	5.03	1.56	4.30	5.73	-0.07	<b>V</b>	13	5.21	1.50	4.30	6.40	-0.25	<b>V</b>	29
Q21.	Satisfaction with: Accessibility of major course instructors outside of class	48	5.48	1.10	5.57	1.31	3.40	6.33	-0.09	▼	12	5.77	1.23	3.40	6.80	-0.29	Ÿ	29
Q22.	Satisfaction with: Responsiveness to major course instructors to student concerns	46	5.20	1.23	5.31	1.37	4.00	6.33	-0.11	▼	14	5.52	1.31	4.00	6.60	-0.32	•	31
Q23.	Satisfaction with: Amount of work required of in major courses	48	4.04	1.58	4.65	1.56	3.87	6.40	-0.61	•	21	4.97	1.47	3.87	6.40	-0.93	¥	41.
Q30.	Satisfaction with: Average size of major courses	48	5.94	1.09	5.86	1.22	4.50	6.50	0.08	•	13	5.99	1.14	4.50	6.80	-0.05	•	29
Q31.	Satisfaction with: Availability of courses in major	48	6.04	1.29	5.46	1.58	3.67	6.33	0.58	<b>A</b>	6	5.52	1.54	3.57	6.35	0.52		9
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	Satisfaction with: Engineering curriculum instructors presentation of technology issues	48	4.73	1.35	4.96	1.27	3.57	5.48	-0.23	▼	13	5.11	1.23	3.57	6.15	-0.38	¥	32
. Q25.	Satisfaction with: Opportunities for practical experiences within Undergraduate curriculum	48	4.71	1.61	4.60	1.54	3.00	5.22	0.11	•	14	4.95	1.53	3.00	6.15	-0.24	•	31
Q26.	Satisfaction with: Opportunities for interaction with practitioners	37	3.92	1.53	4.25	1.45	2.33	5.20	-0.33	▼	15	4.49	1.46	2.33	5.85	-0.57	•	33
Q33.	Satisfaction with: Amount of work in relationship to what was learned	48	4.73	1.40	4.91	1.49	3.89	5.80	-0.18	*	13	5.16	1.42	3.81	6.40	-0.43	•	31

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group

\*NOTE: Weighted Mean and Standard Deviation is calculated with University of Wisconsin-Madison's data included

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Q27.	Satisfaction with: Value derived from team experiences	48	5.23	1.57	5.44	1.38	3.67	6.04	-0.21	▼ 1	4	5.55	1.37	3.67	6.40	-0.32	▼	30
Q28.	Satisfaction with: Value of Engineering program student organization activities	41	4.73	1.85	4.89	1.43	4.00	5.78	-0.16	▼ 1	3   -	4.99	1.42	4.00	6.23	-0.26	<b>*</b>	27
Q29.	Satisfaction with: Leadership opportunities in Engineering program's extracurricular activities	38	5.03	1.74	4.92	1.43	3.75	6.22	0.11		۰   ۰	4.99	1.43	3.70	6.31	0.04	•	20
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Q36.	Advising/Computing - Advising/Computing - Satisfaction with: Quality of computing resources	48	6.00	0.87	5.44	1.46	4.50	6.00	0.56	<b>A</b> 1		5.46	1.43	4.20	6.33	0.54	A	5
Farai	ত্য কি দিল্লীত্য সাঁখালালাহ	40	ỗ (ấγ- <sup>1</sup>	1.12	\$ 700	1 15	( 3 \$ 5 )	6.4	0,36			ଳି ଖ୍ରତ	1 13	2. 06	ត្រូវ <u>ា</u>	Francisco (1985)	ece	**************************************
Q37.	Classmates - Satisfaction with characteristics of your fellow students': Academic quality	48	5.88	0.93	5.78	1.23	4.20	6.30	0.10	▲ 9	) :	5.74	1.18	4.20	6.30	0.14	<b>A</b>	16
Q38.	Classmates - Satisfaction with characteristics of your fellow students': Ability to work in teams	48	5.31	1.37	5.52	1.35	4.47	6.17	-0.21	▼ 14	4	5.54	1.35	4.47	6.17	-0.23	<b>*</b>	29
Q39.	Classmates - Satisfaction with characteristics of your fellow students': Level of camaraderie	48	5.73	1.55	5.79	1.43	4.20	6.30	-0.06	▼ 1	2	5.82	1.39	4.20	6.47	-0.09	¥	26
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Q40.	Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search	43	5.42	1.79	4.95	1.74	2.75	6.00	0.47	<b>A</b> 8	•	4.88	1.79	2.55	6.08	0.54	A	11
	Career Services - Career Services - Satisfaction with: Geographic distribution of companies recruiting on campus	43	4.91	1.52	4.45	1.86	2.00	5.48	0.46	<b>A</b> 5	،   ،	4.40	1.84	1.82	5.54	0.51	•	10
	Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities	38	4.24	1.56	4.41	1.65	2.50	5.70	-0.17	<b>▼</b> 1	1   •	4.36	1.65	1.91	5.77	-0.12	₩	22
	Career Services - Career Services - Satisfaction with: Number of companies recruiting on campus	44	5.57	1.62	4.96	1.75	2.33	6.20	0.61	▲ 5	·   4	4.85	1.78	1.75	6.20	0.72	<b>A</b> -	8
Q44.	Career Services - Career Services - Satisfaction with: Quality of companies recruiting on campus	45	5.64	1.48	5.31	1.59	2.33	6.31	0.33	▲ 6		5.20	1.62	2.18	6.31	0.44	1 <b>.</b>	11
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<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group

\*NOTE: Weighted Mean and Standard Deviation is calculated with University of Wisconsin-Madison's data included

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Q48.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design experiments	48	5.29	1.15	5.36	1.19	4.46	5.91	-0.07	▼	15	5.53	1.19	4.46	6.15	-0.24	▼	35
Q49.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Conduct experiments	48	5.92	0.91	5.59	1.16	4.57	6.13	0.33	•	4	5.72	1.16	4.57	6.60	0.20	•	13
Q50.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Analyze and interpret data	48	6.19	0.88	5.95	0.98	5.00	6.35	0.24	<b>A</b>	5	6.03	0.99	5.00	6.80	0.16	•	16
Q51.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs	48	5.65	1.01	5.61	1.19	4.36	6.30	0.04	<b>A</b>	10	5.74	1.12	4.36	6.50	-0.09	•	29
	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Function on multidisciplinary teams	48	5.48	1.50	5.12	1.59	3.57	6.00	0.36	<b>A</b>	6	5.23	1.61	3.57	6.50	0.25	•	15
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Q56.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities	48	4.77	1.56	5.37	1.38	4.40	6.09	-0.60	•	19	5.52	1.37	4.40	6.77	-0.75	Ÿ	39
Q69.	To what degree did your engineering education enhance your ability to understand the impact of engineering solutions in: A global/societal context	48	5.19	1.45	5.19	1.34	3.64	5.98	0.00		13	5.24	1.33	3.64	5.98	-0.05	•	26

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group

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Q58.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using oral progress reports	46	4.98	1.29	5.51	1.29	4.65	6.30	-0.53	<b>V</b>	20	5.59	1.26	4.65	6.60	-0.61	₩,	40
Q59.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using written progress reports	47	5.98	0.89	5.75	1.14	4.67	6.30	0.23	•	6	5.79	1.16	4.67	6.42	0.19	•	14
Q62.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use modern engineering tools specific to your primary academic major	46	5.74	1.24	5.46	1.28	4.46	6.17	0.28	<b>A</b>	5	5.53	1.28	4.40	6.17	0.21	. 🛦	14
Q67.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Pilot test a component prior to implementation	44	4.43	1.36	4.37	1.66	2.82	5.22	0.06	•	11	4.51	1.66	2.82	5.65	-0.08	, <b>*</b>	24
Q68.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use text materials to support project design	47	5.62	1.23	5.60	1.16	4.27	5.86	0.02	•	12	5.68	1.15	4.27	6.31	-0.06	▼	28

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group

\*NOTE: Weighted Mean and Standard Deviation is calculated with University of Wisconsin-Madison's data included

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Q45.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics	48	6.00	1.04	5.97	0.99	5.33	6.24	0.03	<b>A</b>	10	5.97	0.98	5.33	6.80	0.03	À	18
Q46.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of science	48	6.04	0.89	6.00	0.96	5.17	6.37	0.04		9	6.06	0.91	5.17	6.60	-0.02	<b>*</b>	23
Q47.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of engineering	48	6.21	1.08	6.17	0.96	5.50	6.48	0.04	•	7	6.26	0.88	5.50	6.80	-0.05	<b>∀</b>	24
Q53.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Identify engineering problems	48	5.69	0.98	5.78	1.00	5.33	6.20	-0.09	▼	11	5.85	1.00	5.33	6.31	-0.16	<b>*</b>	27
Q54.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Formulate engineering problems	48	5.56	0.98	5.50	1.15	4.70	6.00	0.06	•	10	5.61	1.11	4.70	6.31	-0.05	•	24
Q55.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering problems	48	6.27	0.81	5.91	1.01	5.17	6.35	0.36	•	2	6.01	0.95	5.17	6.40	0.26	<b>A</b>	7
Q61.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand contemporary issues	47	5.23	1.34	5.19	1.35	4.31	5.90	0.04	<b>A</b>	10	5.31	1.29	4.31	6.31	-0.08	▼	25
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Q64.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Built on knowledge from previous course work	48	5.90	0.98	5.74	1.12	5.00	6.35	0.16	<b>A</b>	7	5.88	1.07	5.00	6.42	0.02	A	20
Q65.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Built on skills from previous course work	48	5.83	1.07	5.75	1.11	4.88	6.26	0.08	<b>A</b>	9	5.88	1.05	4.88	6.42	-0.05	₩	25
Q66.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Incorporated engineering standards	47	5.06	1.31	5.33	1.24	3.89	5.80	-0.27	•	16	5.47	1.22	3.89	6.31	-0.41	Ť	35

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group

\*NOTE: Weighted Mean and Standard Deviation is calculated with University of Wisconsin-Madison's data included

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		Y	our Da	ıta					d Compar nis Carnegie							d Compari ating iinstitu		we se
		N	Mean	Std Dev	Wt Mean*	Std Dev*	Range o	f Means Max	Difference in Means	Arrow	Rank	Wt Mean*	Std Dev*	Range o	f Means Max	Difference in Means	Arrow	Rank
निश्च	ରୀ 13: Dasign (ইମ୍ବର୍ଗ)ର୍ଜନର (ସେଧାର	:15	ű,		ୁଆ ଓଡ଼ିଆ	l'ule:		1VIOX	1000		i <del>c</del>	- 5 W		3. 3.	IVIAX		1670	3.0
Q72.	System Design - To what degree did your system design experience address the following: Addressed Economic issues	48	5.42	1.46	5.57	1.31	4.40	6.23	-0.15	<b>V</b>	14	5.64	1.28	4.40	6.26	-0.22	▼	29
Q73.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues	48	4.58	1.53	5.27	1.35	4.00	5.70	-0.69	•	19	5.32	1.37	4.00	6.15	-0.74	<b>₩</b>	39
Q74.	System Design - To what degree did your system design experience address the following: Addressed Social issues	48	3.75	1.59	4.37	1.56	3.17	4.90	-0.62	•	19	4.50	1.55	3.17	5.85	-0.75	•	37
Q75.	System Design - To what degree did your system design experience address the following: Addressed Political issues	48	3.35	1.59	3.86	1.65	2.33	4.47	-0.51	•	17	3.97	1.65	2.33	5.54	-0.62	₩	35
Q76.	System Design - To what degree did your system design experience address the following: Addressed Ethical issues	48	3.96	1.65	4.75	1.54	2.90	5.50	-0.79	₩	19	4.87	1.54	2.90	6.15	-0.91	Ť	37
Q77.	System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues	48	4.83	1.39	5.44	1.32	3.70	6.19	-0.61	•	17	5.55	1.33	3.70	6.60	-0.72	•	37
Q78.	System Design - To what degree did your system design experience address the following: Addressed Manufacturability issues	48	5.23	1.34	5.22	1.43	3.78	5.72	0.01	•	11	5.33	1.42	3.78	6.38	-0.10	₩	26
Q79.	System Design - To what degree did your system design experience address the following: Addressed Sustainability issues	48	5.15	1.44	5.09	1.49	3.67	6.00	0.06	•	10	5.19	1.48	3.67	6.00	-0.04	¥	24
Fami	อภ 14 เมริงาการหังกุฬ เกิดเดิฟก็สังมะ		- - - - - -	i ci:	3,70	11,040	1 3,53	3.0		The Marian		= 36	77	1 33		[	i byter	5.0
Q80.	Laboratory Facilities <td>48</td> <td>5.56</td> <td>1.06</td> <td>5.09</td> <td>1.45</td> <td>3.67</td> <td>5.89</td> <td>0.47</td> <td><b>A</b></td> <td>5</td> <td>5.32</td> <td>1.40</td> <td>3.67</td> <td>6.26</td> <td>0.24</td> <td>A</td> <td>15</td>	48	5.56	1.06	5.09	1.45	3.67	5.89	0.47	<b>A</b>	5	5.32	1.40	3.67	6.26	0.24	A	15
Q81.	Laboratory Facilities <td>48</td> <td>5.50</td> <td>1.24</td> <td>5.10</td> <td>1.50</td> <td>3.50</td> <td>5.87</td> <td>0.40</td> <td>•</td> <td>8</td> <td>5.36</td> <td>1.44</td> <td>3.50</td> <td>6.26</td> <td>0.14</td> <td><b>A</b> -</td> <td>21</td>	48	5.50	1.24	5.10	1.50	3.50	5.87	0.40	•	8	5.36	1.44	3.50	6.26	0.14	<b>A</b> -	21

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group

\*NOTE: Weighted Mean and Standard Deviation is calculated with University of Wisconsin-Madison's data included

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	·	N	Mean	Std Dev	Wt Mean*	Std Dev*	Range o	f Means Max	Difference in Means	Arrow I		Wt Mean*	Std Dev*	Range o	f Means Max	Difference in Means	Arrow	Rank
୍ଜିମ୍ବର	কা নির, তিমক্রারোটা টিগক্তাহেল টিটাক্রমুগক্রনক্র	4/0	15	1 22	; (e	3.3			(a) (a) (a)	- <u> </u>	551	ं हिमार्ड -	(2.8)	1381	[ /5 / m	1 7 33		12
Q83.	The Bottom Line - Overall Satisfaction - Extent that the Undergraduate Engineering program experience fulfill expectations	48	5.25	1.31	4.78	1.45	3.14	5.74	0.47	<b>A</b>	5	5.01	1.39	3.14	6.00	0.24	<b>A</b>	16
Q84.	Comparing the expense to the quality of education, rate the value of the investment made in Undergraduate Engineering program	48	5.56	1.43	4.86	1.54	3.60	6.14	0.70	•	3	4.89	1.50	3.60	6.60	0.67	•	8
Q85.	How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend	48	5.21	1.72	4.96	1.78	1.71	5.89	0.25		9	5.22	1.67	1.71	6.46	-0.01	, <b>V</b>	23
Q86.	How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering School to a close friend	48	5.79	1.26	5.22	1.53	4.44	6.47	0.57	<b>A</b> ·	5	5.33	1.51	3.36	6.47	0.46	•	13

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		Y	our Da	ta	l .				d Compai nis Carnegie							d Compari ating iinstitu		
Ech ruff umrei		N	Mean	Std Dev	Wt Mean*	Std Dev*	Range o	f Means Max	Difference in Means	Arrow	Rank	Wt Mean*	Std Dev*	Range o	f Means Max	Difference in Means	Arrow	Rank
	্রা নিম্পরত বাদেরবার্গেরা হিলাক্তার বার দের দের নাল্যার্গর হ। সংগ্রামান								7.82									
Q16.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Calculus	44	4.86	1.50	5.24	1.55	4.11	5.83	-0.38	•	19	5.17	1.59	4.11	6.54	-0.31	▼	33
Q17.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Differential Equations	47	4.38	1.74	4.96	1.70	3.82	6.50	-0.58	•	19	5.08	1.73	3.00	6.92	-0.70	•	37
Q18.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics	45	4.00	1.70	4.47	1.77	2.46	5.91	-0.47	•	20	4.49	1.77	2.46	5.91	-0.49	₩	37
Q19.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Chemistry	47	5.72	1.12	5.64	1.32	4.64	6.75	0.08	<b>A</b>	11	5.46	1.41	4.09	6.75	0.26	<b>A</b>	15
Q32.	Satisfaction with: Quality of Engineering classrooms	47	4.94	1.21	4.93	1.52	3.65	5.81	0.01	•	13	5.15	1.52	3.12	6.80	-0.21	¥	28
Q34.	Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty	47	4.30	1.92	4.99	1.79	3.17	6.48	-0.69	*	18	5.24	1.70	3.17	6.48	-0.94	▼ .	35
	Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by non-faculty	27	4.81	1.22	5.00	1.55	3.50	5.98	-0.19	•	11	4.96	1.54	3.43	5.98	-0.15	₩	23
Q60.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Recognize need to engage in lifelong learning	48	5.67	1.45	5.57	1.42	4.77	6.10	0.10	<b>A</b>	8	5.70	1.35	4.77	6.61	-0.03	•	20
Q82.	Course Comparison - Quality of teaching in your Engineering courses compare to the quality of teaching in Non-Engineering courses on this campus	48	5.42	1.22	5.05	1.46	3.00	6.00	0.37	•	8	5.38	1.44	3.00	6.57	0.04	•	22

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group

\*NOTE: Weighted Mean and Standard Deviation is calculated with University of Wisconsin-Madison's data included

# ABET Questions: All Comparative Groups for Engineering Major: Chemical/Molecular

	stion Means Sorted from Highest Mean to est Mean	Your Data		Τì	nere are 6		6 Compons in this		ison gro	oup.		Ca	rnegi	e Class	5	Al	l Institu	ıtions	3
-			Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Mean	Differe	nce Rani	Mean	Differe	ence R	ank	Mean	Differe	nce R	lank
	i ai À <b>olliv to avol</b> y knowledge of mathematiks. Nacand englineathig							884	NATE OF						1 /5	1			
Q47.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of engineering	6.21	6.35	5.50	5.83	6.13	5.88	6.29	6.08	0.13	▲ 3	6.17	0.04	<b>A</b>	7	6.26	-0.05	▼	24
Q46.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of science	6.04	6.15	5.46	5.17	5.73	6.19	6.21	5.97	0.07	<b>4</b>	6.00	0.04	•	9	6.06	-0.02	<b>▼</b> ':	23
Q45.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics	6.00	6.15	5.54	5.33	5.60	6.11	5.86	5.93	0.07	▲ 3	5.97	0.03	•	10	5.97	0.03	<b>A</b>	18
	্রিটি এটাটি ( <b>চ</b> টের্লালা নাটে ভারটান্ড) ভারতালনার ভারিত তৈ ব্যৱস্থিত ব্যালী মাহোমার ক্ষেত্র						त्रकातुः इत्या -						भूको च विकास					A 2 - 4	
Q50.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Analyze and interpret data	6.19	6.16	5.62	5.00	6.13	6.11	5.93	5.99	0.20	▲ 1	5.95	0.24	<b>A</b>	5	6.03	0.16	<b>A</b>	16
Q49.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Conduct experiments	5.92	6.01	5.35	5.33	6.07	4.81	5.57	5.63	0.29	▲ 3	5.59	0.33	•	4	5.72	0.20	•	13
Q48.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design experiments	5.29	5.84	4.46	5.17	5.73	4.63	5.57	5.34	-0.05	▼ 4	5.36	-0.07	•	15	5.53	-0.24	<b>*</b>	35
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NOTE: Carnegie Class and All Institutions Means are weighted are calculated without University of Wisconsin-Madison's data included

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group ▲: UW-Madison has a higher mean than the mean of the comparative group

## ABET Questions: All Comparative Groups for Engineering Major: Chemical/Molecular

	stion Means Sorted from Highest Mean to est Mean	Your Data		Τŀ	nere are 6		6 Comp		rison gro	oup.		С	arnegie	e Cla	ss	All	Instit	ution	ıs
			Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Mean	Differe	nce Ran	Mear	Differe	ence	Rank	Mean	Differe	nce	Rank
Drioc cons soci	iks: Abilly to design a system, someomen, or essuo mesi desired needs within realisho trains such as economic, environmental, al, political, ethical, health and salaty urastnebilly, and sustaliabilly																		
Q51.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs	5.65	5.82	4.69	5.50	5.93	5.52	5.79	5.57	0.08	<b>A</b> 4	5.61	0.04	•	10	5.74	-0.09	₩.	29
Q72.	System Design - To what degree did your system design experience address the following: Addressed Economic issues	5.42	5.52	5.19	4.67	6.20	5.85	5.50	5.55	-0.13	▼ 5	5.57	-0.15	•	14	5.64	-0.22	Ÿ	29
Q78.	System Design - To what degree did your system design experience address the following: Addressed Manufacturability issues	5.23	5.72	4.24	3.83	5.53	5.12	5.36	5.25	-0.02	▼ 4	5.22	0.01	•	11	5.33	-0.10	▼.	26
Q79.	System Design - To what degree did your system design experience address the following: Addressed Sustainability issues	5.15	5.43	4.08	3.67	4.07	5.41	5.36	4.99	0.16	<b>4</b>	5.09	0.06	<b>A</b>	10	5.19	-0.04	•	24
Q77.	System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues	4.83	5.66	4.38	4.67	5.93	5.41	5.43	5.37	-0.54	▼ 5	5.44	-0.61	•	17	5.55	-0.72	▼	37
Q73.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues	4.58	5.61	4.19	4.00	5.27	5.37	5.50	5.22	-0.64	<b>▼</b> 5	5.27	-0.69	•	19	5.32	-0.74	•	39
Q76.	System Design - To what degree did your system design experience address the following: Addressed Ethical issues	3.96	5.29	4.69	4.17	4.67	4.96	4.36	4.94	-0.98	<b>▼</b> 7	4.75	-0.79	Ť	19	4.87	-0.91	₩	37
Q74.	System Design - To what degree did your system design experience address the following: Addressed Social issues	3.75	4.75	3.81	3.17	4.60	4.42	4.21	4.41	-0.66	▼ 6	4.37	-0.62	•	19	4.50	-0.75	•	37
Q75.	System Design - To what degree did your system design experience address the following: Addressed Political issues	3.35	4.47	3.62	2.33	3.60	3.81	3.57	3.97	-0.62	▼ 6	3.86	-0.51	•	17	3.97	-0.62	<b>▼</b>	35

NOTE: Carnegie Class and All Institutions Means are weighted are calculated without University of Wisconsin-Madison's data included

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group ▲: UW-Madison has a higher mean than the mean of the comparative group

#### ABET Questions: All Comparative Groups for Engineering Major: Chemical/Molecular

	stion Means Sorted from Highest Mean to est Mean	Your Data		Th	ere are 6		6 Comp		ison gro	up.		Ca	rnegie	Cla	ss	All	Institu	tions	\$ 
			Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Mean	Differe	nce Ran	k Mean	Differe	ence	Rank	Mean	Differen	ce R	tank
ABE team	Tok Ability to living tot on multi-clise blinery. E															ingle a control			
Q52.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Function on multidisciplinary teams	5.48	5.73	4.50	5.00	5.67	5.37	5.36	5.40	0.08	▲ 3	5.12	0.36		6	5.23	0.25	<b>A</b>	15
	ī e Anno o idento, iomulaie, and solve ideilou oideitans						TO ME D	3-1				1 2		4,2	eri Andreas	( PK 78)			
Q55.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering problems	6.27	6.07	5.58	5.17	5.53	5.81	6.00	5.85	0.42	<b>A</b> 1	5.91	0.36	<b>A</b>	2	6.01	0.26	<b>A</b>	7
Q53.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Identify engineering problems	5.69	5.93	5.46	5.33	5.87	5.48	5.86	5.74	-0.05	₩ 4	5.78	-0.09	₩	11	5.85	-0.16	Ÿ	27
Q54.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Formulate engineering problems	5.56	5.76	5.00	5.17	5.67	5.07	5.57	5.47	0.09	<b>A</b> 4	5.50	0.06	•	10	5.61	-0.05	<b>▼</b>	24
ABE Lesio	T & Un <b>cersanding o</b> f professional and extical onsibility	equ.			4			N.			F 197		we differen						
Q56.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities	4.77	5.81	4.88	5.83	5.40	5.22	4.93	5.44	-0.67	<b>▼</b> 7	5.37	-0.60	▼	19	5.52	-0.75	▼	39
ABE	Îs. Anno le communicate effectively						Jack .		Est of the second	There was not a			· Callerin	i de ajeran ya Naj	Tall .	[			en seguijo
Q59.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using written progress reports	5.98	6.01	5.28	5.83	5.67	5.63	5.86	5.77	0.21	<b>A</b> 2	5.75	0.23	<b>A</b>	6	5.79	0.19	<b>A</b>	14
Q58.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using oral progress reports	4.98	5.66	4.91	5.50	5.00	5.11	5.79	5.39	-0.41	▼ 6	5.51	-0.53	•	20	5.59	-0.61	▼	40

<sup>▼:</sup> UW-Madison has a lower mean than the mean of the comparative group ▲: UW-Madison has a higher mean than the mean of the comparative group

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### ABET Questions: All Comparative Groups for Engineering Major: Chemical/Molecular

Question Means Sorted from Highest Mean to Lowest Mean	Your Data		Tì	nere are 6			<b>oarison</b> s compa		oup.		Ca	rnegie C	lass	ΑI	Institut	ions
		Sel 1	Sel 2	Sel 3	Sel 4	Sel 5	Sel 6	Mean	Difference	æ Rank	Mean	Difference	Rank	Mean	Difference	e Rank
ABET in Eleachedination meassar, to unclassard Theilmaket of anomealing solutions in a albert and sealer somes.		Control		1.00												
Q69. To what degree did your engineering education enhance your ability to understand the impact of engineering solutions in: A global/societal context	5.19	5.29	4.54	4.50	4.53	5.19	5.29	5.04	0.15	4	5.19	0.00	13	5.24	-0.05	<b>7</b> 26
ANTER IN Reportations of the mass for such emissible. C Objects in literage leadings			3245 112 113 113				Now To State			}						
Q60. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Recognize need to engage in lifelong learning	5.67	5.73	4.77	5.67	5.87	5.30	5.71	5.50	0.17	4	5.57	0.10	8 .	5.70	-0.03	20
ASET IL Knowledge of continuously, issues					The state of the s		rot generality			erre erre die die een een			A proper con		om a literatur Literatur	in the state of th
Q61. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand contemporary issues	5.23	5.52	4.31	5.17	4.93	5.37	5.64	5.23	0.00	4	5.19	0.04	. 10	5.31	-0.08	7 25
ABBI & Abiliv to use the lectulous, stills, and inocent envigendary tools recessory for entracents precine		Set 11 miles												Programa Articles Programa In		
Q62. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use modern engineering tools specific to your primary academic major	5.74	5.63	4.46	5.83	5.87	5.41	5.64	5.43	0.31	3	5.46	0.28	. 5	5.53	0.21	14

NOTE: Carnegie Class and All Institutions Means are weighted are calculated without University of Wisconsin-Madison's data included

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# Highest and Lowest Mean Questions for Engineering Major: Chemical/Molecular

This	হঠা ল'ল্ভালেনিক এক নিজনিল্ডা ক্রন্তেন ল্ভালেনিক কিল্লালাক কলে। আনাজ্য কলে, ল' Wisconstitutive of support	Condition of the Condit	Mrset.	Syc   1575)
Q55.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering problems	48	6.27	0.81
Q47.	The second state of the se	48	6.21	1.08
Q50.	The state of the s	48	6.19	0.88
Q31.	The second secon	48	6.04	1.29
Q46.	The state of the s	48	6.04	0.89
Q45.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics	48	6.00	1.04
Q36.	Advising/Computing - Advising/Computing - Satisfaction with: Quality of computing resources	48	6.00	0.87
Q59.	begins that engineering education enhanced ability to. Communicate using written progress reports	47	5.98	0.89
Q30.	Satisfaction with: Average size of major courses	48	5.94	1.09
Q49.	State Development Degree that engineering education enhanced ability to: Conduct experiments	48	5.92	0.91
Q64.	State Devices that engineering education enhanced ability to. Built on knowledge from previous course work	48	5.90	0.98
Q37.	Classmates - Satisfaction with characteristics of your fellow students': Academic quality	48	5.88	0.93
Q65.	The state of the s	48	5.83	1.07
Q86.	How inclined are you to recommend your. How inclined are you to recommend your Undergraduate Engineering School to a close friend	48	5.79	1.26
Q62.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use modern engineering tools specific to your	46	5.74	1.24
ាក់ ក្រោះ	রর র লাল্ডবাকাত বাহ টাট তিওলেল নিজেন কাল্ডবাকাত কৈ তিন্তু করি তালিল কর্মনিত ক্রিকলাত করে বাল্ডবাল	त्रःस्त्रीताम् । स्तर्भावतास्त्र	ที่เหลีก	
	System Design - To what degree did your system design experience address the following: Addressed Political issues			25 (6) Dre-4
Q74.	System Design - To what degree did your system design experience address the following: Addressed Social issues	48	3.35	1.59
Q14.		48	3.75	1.59
Q26.		48	3.85	
Q76.	11 Maria Mar			1.14
	System Design - To what degree did your system design experience address the following: Addressed Ethical issues	37	3.92	1.53
Q18.	Addressed Ethical Issues	48	3.92 3.96	1.53 1.65
Q18. Q23.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics	48 45	3.92 3.96 4.00	1.53 1.65 1.70
	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics Satisfaction with: Amount of work required of in major courses	48 45 48	3.92 3.96 4.00 4.04	1.53 1.65 1.70 1.58
Q23.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics Satisfaction with: Amount of work required of in major courses Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities	48 45 48 38	3.92 3.96 4.00 4.04 4.24	1.53 1.65 1.70 1.58 1.56
Q23. Q42. Q34.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics Satisfaction with: Amount of work required of in major courses Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty	48 45 48 38 47	3.92 3.96 4.00 4.04 4.24 4.30	1.53 1.65 1.70 1.58 1.56 1.92
Q23. Q42. Q34.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics Satisfaction with: Amount of work required of in major courses Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty Instruction and Faculty in your Engineering Major	48 45 48 38 47 47	3.92 3.96 4.00 4.04 4.24 4.30 4.34	1.53 1.65 1.70 1.58 1.56 1.92 1.29
Q23. Q42. Q34. Q15.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics Satisfaction with: Amount of work required of in major courses Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty Instruction and Faculty in your Engineering Major Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Differential Equations	48 45 48 38 47 47	3.92 3.96 4.00 4.04 4.24 4.30 4.34 4.38	1.53 1.65 1.70 1.58 1.56 1.92 1.29
Q23. Q42. Q34. Q15. Q17. Q67.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics Satisfaction with: Amount of work required of in major courses Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty Instruction and Faculty in your Engineering Major Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Differential Equations Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Pilot test a component prior to implementation	48 45 48 38 47 47 47	3.92 3.96 4.00 4.04 4.24 4.30 4.34 4.38 4.43	1.53 1.65 1.70 1.58 1.56 1.92 1.29 1.74 1.36
Q23. Q42. Q34. Q15. Q17. Q67. Q73.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics Satisfaction with: Amount of work required of in major courses Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty Instruction and Faculty in your Engineering Major Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Differential Equations Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Pilot test a component prior to implementation System Design - To what degree did your system design experience address the following: Addressed Environmental issues	48 45 48 38 47 47 47 44 48	3.92 3.96 4.00 4.04 4.24 4.30 4.34 4.38 4.43 4.58	1.53 1.65 1.70 1.58 1.56 1.92 1.29
Q23. Q42. Q34. Q15. Q17. Q67. Q73.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics Satisfaction with: Amount of work required of in major courses Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty Instruction and Faculty in your Engineering Major Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Differential Equations Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Pilot test a component prior to implementation	48 45 48 38 47 47 47	3.92 3.96 4.00 4.04 4.24 4.30 4.34 4.38 4.43	1.53 1.65 1.70 1.58 1.56 1.92 1.29 1.74

# Question Competitive Analysis: Select 6 Comparison for Engineering Major: Chemical/Molecular

Q84. Comparing the expense to the quality of education, rate the value of the investment made in Undergraduate Engineering program Q31. Satisfaction with: Availability of courses in major Q82. Course Comparison - Quality of teaching in your Engineering courses compare to the quality of teaching in Non-Engineering courses on Q83. The Bottom Line - Overall Satisfaction - Extent that the Undergraduate Engineering program experience fulfill expectations Q36. Advising/Computing - Advising/Computing - Satisfaction with: Quality of computing resources Q81. Laboratory Facilities C82. Laboratory Facilities C83. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering process Q83. Laboratory Facilities C84. Laboratory Facilities C85. How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend Q86. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Laboratory facilities are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend	5.25 6.00 5.50	4.80 5.37 4.87 4.74 5.51 5.03 5.85 5.15	0.76 0.67 0.55 0.51 0.49 0.47
Q82. Course Comparison - Quality of teaching in your Engineering courses compare to the quality of teaching in Non-Engineering courses on Q83. The Bottom Line - Overall Satisfaction - Extent that the Undergraduate Engineering program experience fulfill expectations Q36. Advising/Computing - Advising/Computing - Satisfaction with: Quality of computing resources Q81. Laboratory Facilities Q81. Laboratory Facilities Degree that laboratory facilities: Fostered student/faculty interaction Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering program Q80. Laboratory Facilities Degree that laboratory facilities: Established an atmosphere conducive to learning Q85. How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend	5.42 5.25 6.00 5.50 oblems 6.27	4.87 4.74 5.51 5.03 5.85	0.55 0.51 0.49 0.47 0.42
<ul> <li>Q83. The Bottom Line - Overall Satisfaction - Extent that the Undergraduate Engineering program experience fulfill expectations</li> <li>Q36. Advising/Computing - Advising/Computing - Satisfaction with: Quality of computing resources</li> <li>Q81. Laboratory Facilities <li>Q55. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering program outcomes</li> <li>Q80. Laboratory Facilities</li> <li>Degree that laboratory facilities: Established an atmosphere conducive to learning</li> <li>Q85. How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend</li> </li></ul>	5.25 6.00 5.50 oblems 6.27	4.74 5.51 5.03 5.85	0.51 0.49 0.47 0.42
<ul> <li>Q83. The Bottom Line - Overall Satisfaction - Extent that the Undergraduate Engineering program experience fulfill expectations</li> <li>Q36. Advising/Computing - Advising/Computing - Satisfaction with: Quality of computing resources</li> <li>Q81. Laboratory Facilities <li>Q55. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering program outcomes and Assessment - Skill Development - Degree that laboratory facilities: Established an atmosphere conducive to learning</li> <li>Q85. How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend</li> </li></ul>	5.25 6.00 5.50 oblems 6.27	5.51 5.03 5.85	0.49 0.47 0.42
Q81. Laboratory Facilities - Degree that laboratory facilities: Fostered student/faculty interaction Q55. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering pro Q80. Laboratory Facilities - Degree that laboratory facilities: Established an atmosphere conducive to learning Q85. How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend	5.50 oblems 6.27	5.03 5.85	0.47 0.42
<ul> <li>Q55. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering program.</li> <li>Q80. Laboratory Facilities - Degree that laboratory facilities: Established an atmosphere conducive to learning.</li> <li>Q85. How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend.</li> </ul>	oblems 6.27	5.85	0.47 0.42
<ul> <li>Q55. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering program.</li> <li>Q80. Laboratory Facilities </li> <li>Laboratory Facilities </li> <li>La</li></ul>		5.85	0.42
Q80. Laboratory Facilities <td></td> <td></td> <td>,51.1.0</td>			,51.1.0
Q85. How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend	****		0.41
OS2 Program Outcomes and Assessment Otalia D. J.	5.21	4.88	0.33
Q62. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use modern engineer your primary academic major		5.43	0.31
Q40. Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search	5.42	5.12	0.30
Q13. Instruction and Faculty in your Engineering Major Quality of: Teaching	5.17	4.88	0.29
Q49. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Conduct experiments	5.92	5.63	0.29
Q86. How inclined are you to recommend your. How inclined are you to recommend your Undergraduate Engineering School to a close friend	5.79	5.51	
Q43. Career Services - Career Services - Satisfaction with: Number of companies recruiting on campus	5.79 5.57	5.31	0.28 0.26

NOTE: If a section is blank, this means that there were no questions that met those conditions.

# Question Competitive Analysis: Select 6 Comparison for Engineering Major: Chemical/Molecular

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Q76.	System Design - To what degree did your system design experience address the following: Addressed Ethical issues	3.96	4.94	-0.98
Q34.	Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty	4.30	5.03	-0.73
Q56.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities	4.77	5.44	-0.67
Q74.		3.75	4.41	-0.66
Q73.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues	4.58	5.22	-0.64
Q75.	System Design - To what degree did your system design experience address the following: Addressed Political issues	3.35	3.97	-0.62
Q17.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Differential Equations	4.38	5.00	-0.62
Q23.	Satisfaction with: Amount of work required of in major courses	4.04	4.61	-0.57
Q77.	System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues	4.83	5.37	-0.54
Q16.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Calculus	4.86	5.38	-0.52
Q14.		3.85	4.26	-0.41
Q26.	Satisfaction with: Opportunities for interaction with practitioners	3.92	4.33	-0.41
Q58.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using oral progress reports	4.98	5.39	-0.41 -0.41
Q18.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics	4.00	4.38	
Q15.	Instruction and Faculty in your Engineering Major	4.34		-0.38
	Quality of: Student/faculty interaction	4.34	4.69	-0.35

NOTE: If a section is blank, this means that there were no questions that met those conditions.

# Question Competitive Analysis: Longitudinal Comparison for Engineering Major: Chemical/Molecular

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	Laboratory Facilities <td>5.50</td> <td>5.00</td> <td>0.50</td>	5.50	5.00	0.50
Q84.	Comparing the expense to the quality of education, rate the value of the investment made in Undergraduate Engineering program	5.56	5.08	0.48
Q86.	How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering School to a close friend	5.79	5.34	0.45
Q80.	Laboratory Facilities <td>5.56</td> <td>5.18</td> <td>0.38</td>	5.56	5.18	0.38
Q85.	How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend	5.21	4.89	0.32
Q33.	Satisfaction with: Amount of work in relationship to what was learned	4.73	4.42	0.31
Q31.	Satisfaction with: Availability of courses in major	6.04	5.74	0.30
Q52.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Function on multidisciplinary teams	5.48	5.18	0.30
Q39.	Classmates - Satisfaction with characteristics of your fellow students': Level of camaraderie	5.73	5.46	0.27
Q83.	The Bottom Line - Overall Satisfaction - Extent that the Undergraduate Engineering program experience fulfill expectations	5.25	5.00	0.25
Q67.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Pilot test a component prior to implementation	4.43	4.19	0.24
	Satisfaction with: Responsiveness to major course instructors to student concerns	5.20	4.97	0.23
Q23.	The second secon	4.04	3.82	0.22
Q69.	To what degree did your engineering education enhance your ability to understand the impact of engineering solutions in: A global/societal context	5.19	4.97	0.22
Q19.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Chemistry	5.72	5.50	0.22
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Q73.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues	4.58	5.53	ਾਸੀਜਾਮਨਾਜ਼ -0.95
Q73. Q76.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues System Design - To what degree did your system design experience address the following: Addressed Ethical issues			
Q73. Q76. Q77.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues	4.58	5.53	-0.95
Q73. Q76. Q77. Q74.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues	4.58 3.96	5.53 4.71	-0.95 -0.75
Q73. Q76. Q77. Q74. Q24.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues	4.58 3.96 4.83	5.53 4.71 5.39	-0.95 -0.75 -0.56
Q73. Q76. Q77. Q74. Q24. Q72.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues	4.58 3.96 4.83 3.75	5.53 4.71 5.39 4.27 5.21	-0.95 -0.75 -0.56 -0.52 -0.48
Q73. Q76. Q77. Q74. Q24. Q72. Q56.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities	4.58 3.96 4.83 3.75 4.73	5.53 4.71 5.39 4.27 5.21 5.89	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47
Q73. Q76. Q77. Q74. Q24. Q72. Q56. Q45.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics	4.58 3.96 4.83 3.75 4.73 5.42 4.77	5.53 4.71 5.39 4.27 5.21 5.89 5.21	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47
Q73. Q76. Q77. Q74. Q24. Q72. Q56. Q45. Q40.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics  Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search	4.58 3.96 4.83 3.75 4.73 5.42 4.77 6.00	5.53 4.71 5.39 4.27 5.21 5.89 5.21 6.37	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47 -0.44 -0.37
Q73. Q76. Q77. Q74. Q24. Q72. Q56. Q45. Q40.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities	4.58 3.96 4.83 3.75 4.73 5.42 4.77	5.53 4.71 5.39 4.27 5.21 5.89 5.21	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47
Q73. Q76. Q77. Q74. Q24. Q72. Q56. Q45. Q40. Q51.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics  Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system component or process to	4.58 3.96 4.83 3.75 4.73 5.42 4.77 6.00 5.42 5.65	5.53 4.71 5.39 4.27 5.21 5.89 5.21 6.37 5.78 5.97	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47 -0.44 -0.37 -0.36 -0.32
Q73. Q76. Q77. Q74. Q24. Q72. Q56. Q45. Q40. Q51.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics  Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs  Satisfaction with: Quality of Engineering classrooms	4.58 3.96 4.83 3.75 4.73 5.42 4.77 6.00 5.42 5.65	5.53 4.71 5.39 4.27 5.21 5.89 5.21 6.37 5.78 5.97	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47 -0.44 -0.37 -0.36 -0.32
Q73. Q76. Q77. Q74. Q24. Q56. Q45. Q40. Q51.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics  Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs  Satisfaction with: Quality of Engineering classrooms  Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by non-faculty	4.58 3.96 4.83 3.75 4.73 5.42 4.77 6.00 5.42 5.65 4.94 4.81	5.53 4.71 5.39 4.27 5.21 5.89 5.21 6.37 5.78 5.97 5.26 5.12	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47 -0.44 -0.37 -0.36 -0.32 -0.32
Q73. Q76. Q77. Q74. Q24. Q56. Q45. Q40. Q51. Q32. Q35. Q46.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Ethical issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics  Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs  Satisfaction with: Quality of Engineering classrooms  Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by non-faculty  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of science	4.58 3.96 4.83 3.75 4.73 5.42 4.77 6.00 5.42 5.65 4.94 4.81 6.04	5.53 4.71 5.39 4.27 5.21 5.89 5.21 6.37 5.78 5.97 5.26 5.12 6.34	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47 -0.44 -0.37 -0.36 -0.32 -0.32 -0.31 -0.30
Q73. Q76. Q77. Q74. Q24. Q56. Q45. Q40. Q51. Q32. Q35. Q46. Q75.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues  System Design - To what degree did your system design experience address the following: Addressed Social issues  Satisfaction with: Engineering curriculum instructors presentation of technology issues  System Design - To what degree did your system design experience address the following: Addressed Economic issues  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics  Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search  Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs  Satisfaction with: Quality of Engineering classrooms  Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by non-faculty	4.58 3.96 4.83 3.75 4.73 5.42 4.77 6.00 5.42 5.65 4.94 4.81	5.53 4.71 5.39 4.27 5.21 5.89 5.21 6.37 5.78 5.97 5.26 5.12	-0.95 -0.75 -0.56 -0.52 -0.48 -0.47 -0.44 -0.37 -0.36 -0.32 -0.32

NOTE: If a section is blank, this means that there were no questions that met those conditions.

## Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

			2009's			2008's		Compai	rison					Previo	us Y	ear's D	ata			*	
			Data			Data				200	7's Dat	а	200	6's Dat	a	200	)5's Dat	a	200	4's Dat	а
		N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow	Mean	Differe	ence	Mean	Differe	псе	Mean	Differe	ence	Mean	Differe	nce
ିଲ୍ଲ ବ୍ରଲ	র্ক ী ীনজান্দের্কের জনিমাংক্রন্ত এটা ক্রি Majiar ব্রহ	30	il ila	เมื่อใช้เ	N.S.		i) (15)	\$\hat{0} \diz_{\ell}	A STATE OF THE STA	44	ie 54		ু ইন্ট্ৰ	10 10	7-7	14/467			Z SZ	(i) (g)	
Q13.	Instruction and Faculty in your Engineering Major Quality of: Teaching	48	5.17	1.17	38	5.03	1.15	0.14	î	4.71	0.46	1	5.12	0.05		5.01	0.16	î	5.24	-0.07	
Q14.	Instruction and Faculty in your Engineering Major Quality of: Feedback on assignments (other than grades)	48	3.85	1.15	38	4.08	1.50	-0.23	1	4.03	-0.18	1	4.05	-0.20	1	3.79	0.06		4.08	-0.23	1
Q15.	Instruction and Faculty in your Engineering Major Quality of: Student/faculty interaction	47	4.34	1.31	38	4.34	1.28	0.00		4.67	-0.33	1	4.42	-0.08		4.46	-0.12	<b>1</b>	4.55	-0.21	1
Ferei	ରୀ ଥି <i>ା</i> ଜାଗ୍ରତ୍ତ ରମ୍ମାନ୍ତ୍ରମଣ ଦେଇଥିଲ	ું નુક	3.27	i) er	2/e	୍ଟି ପିଞ୍ଚି	1 511	73 (1 / 6 / 1 <del>2</del> )	7797	िंह हुआ	56 83°			i digitar		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	The State	ere i		i la distrib	
Q20.	Satisfaction with: Grades in major courses accurately reflecting students' level of performance	47	4.96	1.76	38	4.89	1.48	0.07		4.95	0.01		4.95	0.01		4.63	0.33	1	4.88	0.08	
Q21.	Satisfaction with: Accessibility of major course instructors outside of class	48	5.48	1.11	37	5.27	1.47	0.21	1	5.64	-0.16	1	5.73	-0.25	1	5.32	0.16	1	5.60	-0.12	.‡.
Q22.	Satisfaction with: Responsiveness to major course instructors to student concerns	46	5.20	1.24	38 .	4.97	1.26	0.23	î	5.33	-0.13	1	5.38	-0.18	1	5.40	-0.20	<b>↓</b>	5.31	-0.11	1
Q23.	Satisfaction with: Amount of work required of in major courses	48	4.04	1.60	38	3.82	1.84	0.22	1	3.97	0.07		4.06	-0.02		.4.18	-0.14	<b>↓</b>	3.98	0.06	
	Satisfaction with: Average size of major courses	48	5.94	1.10	38	5.84	1.13	0.10	1	5.85	0.09		5.80	0.14	1	5.76	0.18	1	5.96	-0.02	
Q31.	Satisfaction with: Availability of courses in major	48	6.04	1.30	38	5.74	1.33	0.30	1	5.73	0.31	1	5.78	0.26	î	5.84	0.20	1	5.84	0.20	1
FRAN	อาก ผู้ 🖫 สะคงอันิสาเอรา เริ่มขุดสกุล ยูนโยหลัก	i i	ាន			: a	126				16 76	reiri		74. 19k		in an			O.	- Elast	
Q24.	Satisfaction with: Engineering curriculum instructors presentation of technology issues	48	4.73	1.36	38	5.21	1.28	-0.48	<b>+</b>	4.91	-0.18	1		-0.22	<b>↓</b>	4.77				-0.37	<b>↓</b>
Q25.	Satisfaction with: Opportunities for practical experiences within Undergraduate curriculum	48	4.71	1.62	38	4.66	1.62	0.05		4.51	0.20	1	4.80	-0.09		5.06	-0.35	1	4.49	0.22	1
	Satisfaction with: Opportunities for interaction with practitioners	37	3.92	1.55	36	4.11	1.53	-0.19	<b>↓</b>	4.18	-0.26	1	4.11	-0.19	<b>↓</b>	4.50	-0.58	1	4.27	-0.35	1
Q33.	Satisfaction with: Amount of work in relationship to what was learned	48	4.73	1.41	38	4.42	1.75	0.31	1	4.58	0.15	1	4.83	-0.10	Ţ	4.73	0.00		4.88	-0.15	1
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# Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

		Į.	2009's	1		2008's		Compar	ison	j, 	,			Previou	us Y	ear's C	ata			·	
			Data			Data				200	7's Data	<b>a</b> .	200	6's Data	a	200	)5's Dat	a	200	4's Dat	а
		N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow	Mean	Differe	nce	Mean	Differe	nce	Mean	Differe	nce	Mean	Differe	nce
in-In	কা শ্লেন্ডাল ও ইংগ্রেন্ডাল্পল্যাল্য একাপ্রান্ত	74E	3 D)	1 5/3	Ŋē.	: 13		The William	\$2.5T		d),20,	T. J.	\$120	Tu <sub>2</sub> -2/ <sub>2</sub>		- 170A	Digital Control	3 (1)		100 334	
	Satisfaction with: Value derived from team experiences	48	5.23	1.59	37	5.41	0.96	-0.18	1	5.54	-0.31	<b>+</b>	5.44	-0.21	1	5.34	-0.11	1	5.51	-0.28	<b>\</b>
	Satisfaction with: Value of Engineering program student organization activities	41	4.73	1.87	34	5.03	1.42	-0.30	<b>4</b> .	5.00	-0.27	1	5.20	-0.47	1	5.05	-0.32	<b>†</b>	5.12	-0.39	<b>, \</b>
Q29.	Satisfaction with: Leadership opportunities in Engineering program's extracurricular activities	38	5.03	1.76	35	5.03	1.64	0.00		5.05	-0.02		4.96	0.07		5.23	-0.20	1	5.15	-0.12	1
निस्त	वितः ज - देपवातापूर्वपाद्याताकुः निर्वादप्रवाधान्यवादः	4	5 016	- (516)		· 6 · 10	ប់ និបី			a 30	ાં(દી ટીંજ	li .	3.46	11.41	<del></del>		-0.0		÷ (1)	5 Min	
Q36.	Advising/Computing - Advising/Computing - Satisfaction with: Quality of computing resources	48	6.00	0.88	38	6.18	0.80	-0.18	1	6.20	-0.20	<b>†</b>	6.46	-0.46	<b>+</b>	6.35	-0.35	1	6.00	0.00	
টোৱ	or a Fallon Sucionis		-3 'eye'		315	် ၁ (၁) ၈) (	(ប៉ា ខាំ)			୍ ।ଲିନ୍ଦ	વંદી હોંમું			্র ক্রুর্ব জ পুরুর টুরের			T-GAA			10.00	
Q37.	Classmates - Satisfaction with characteristics of your fellow students': Academic quality	48	5.88	0.94	38	5.76	1.05	0.12	Ť	5.77		1	5.88	0.00		5.94	-0.06		5.88	0.00	
Q38.	Classmates - Satisfaction with characteristics of your fellow students': Ability to work in teams	48	5.31	1.39	38	5.55	0.89	-0.24	1	5.73	-0.42	ţ	5.57	-0.26	<b>↓</b>	5.62	-0.31	1	5.71	-0.40	1
Q39.	Classmates - Satisfaction with characteristics of your fellow students': Level of camaraderie	48	5.73	1.57	37	5.46	1.28	0.27	1	5.51	0.22	Ť	5.62	0.11	1	5.68	0.05		5.57	0.16	1
Fere	ক্রান্তি নির্বিভাল <b>ওক্তিশাল্ডিক ভান্</b> ধি একটি শিল্পানাল্যভাল	2023	(5 , 2 j)	518	3/8	8 32	1167		7.7.5	6.30	(0	. <del></del>	4,53	10 mg			Silver Silver			6	50.77
Q40.	Career Services - Career Services - Satisfaction with: Assistance in preparation for permanent job search	43	5.42	1.82	36	5.78	1.15	-0.36	<b>\</b>	5.54		<b>↓</b>	5.79		<b>\</b>	5.68	-0.26	<b>\</b>		-0.14	<b>↓</b>
Q41.	Career Services - Career Services - Satisfaction with: Geographic distribution of companies recruiting on campus	43	4.91	1.54	37	5.14	1.55	-0.23	1	5.28	-0.37	<b>1</b>	5.45	-0.54	1	5.10	-0,19	, †	5.39	-0.48	<b>†</b>
Q42.	Career Services - Career Services - Satisfaction with: Access to school's alumni to cultivate career opportunities	38	4.24	1.58	35	4.37	1.59	-0.13		4.27	-0.03		4.58	-0.34	1	4.00	0.24	1	4.29	-0.05	
	Career Services - Career Services - Satisfaction with: Number of companies recruiting on campus	44	5.57	1.63	38	5.63	1.48	-0.06		6.00	-0.43	1	5.74	-0.17	1	5.69	-0.12	1	5.04	0.53	1
Q44.	Career Services - Career Services - Satisfaction with: Quality of companies recruiting on campus	45	5.64	1.49	37	5.70	1.20	-0.06		6.03	-0.39	<b>↓</b>	5.84	-0.20	<b>+</b>	5.53	0.11	Ť	5.80	-0.16	· ↓
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## Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

			2009's	1		2008's		Compar	ison	Ī			1	Previo	us Y	ear's D	ata				
			Data			Data				200	7's Data		200	6's Dat	а	200	5's Dat	a _	200	4's Dat	a
		N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow	Mean	Differen	ce N	/lean	Differe	ence	Mean	Differe	nce	Mean	Differe	ince
Fami	ক ভিন্তু ক্রিক টাইবালে ই শংকালকৈ ইনাপদ্ভ	1/3	E 70.	0 25	NYE.	5 7º3	û, As	(i) (i) (ii)		্ট ভ	્રાંદિયા છે. છે.		5 + 5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	19 (1 <b>72</b> )		1 3 6 7	Jan 13	di?	# # J	્તા (છ	
Q48.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design experiments	48	5.29	1.17	38	5.55	1.01	-0.26	<b>→</b>	5.47	-0.18	1	5.52	-0.23	↓ .	5.59	-0.30	1	5.49	-0.20	<b>\</b>
Q49.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Conduct experiments	48	5.92	0.92	38	5.89	1.01	0.03		5.80	0.12	↑ .	6.06	-0.14	1	6.06	-0.14	Ţ	5.98	-0.06	
Q50.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Analyze and interpret data	48	6.19	0.89	38	6.05	0.98	0.14	1	6.26	-0.07		6.23	-0.04		6.29	-0.10	1	6.35	-0.16	<b>\rightarrow</b>
Q51.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs	48	5.65	1.02	38	5.97	0.85	-0.32	1	5.71	-0.06		5.52	0.13	1	5.76	-0.11	1	5.60	0.05	
Q52.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Function on multidisciplinary teams	48	5.48	1.52	38	5.18	1.16	0.30	1	5.70	-0.22	1	5.54	-0.06		5.42	0.06		5.55	-0.07	
न्तिल	कर <sup>्</sup> । मित्तकर्ला का चित्रवाताच्यामात्व चेत्रीणप्रकलनाट	∆4°	( S/E)	3.0	W.	୍ଦି ତା≅	1. 25	(\$1 HO)	i	्रिया <b>छ</b> । च	(u (0)4)		4 BO	্ ট্রিটা		A Sage	ાં ચંકે	ر شند با در ادران		ili. k	
Q56.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities	48	4.77	1.57	38	5.21	1.40	-0.44	<b>↓</b>	5.05	-0.28	ψ.	4.98	-0.21	<b>→</b>	4.43	0.34	Ť	4.76	0.01	
Q69.	To what degree did your engineering education enhance your ability to understand the impact of engineering solutions in: A global/societal context	48	5.19	1.47	37	4.97	1.34	0.22	↑ ,	4.89	0.30	↑   ·	4.80	0.39	1	4.61	0.58	1	4.88	0.31	<b>†</b>

# Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

			2009's			2008's		Compar	rison	Ī			Previous	Yea	r's D	ata			
		_	Data			Data				200	7's Data	200	06's Data	.	200	5's Data	200	4's Dat	ta
		N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow	Mean	Difference	Mean	Difference	e N	lean	Difference	Mean	Differe	ence
FOR	ନ୍ତି ।ଏ. ଏଥିରେ ରହି । । । । । । । । । । । । । । । । । । ।	ંષ્ટ	ŝ ŝγ.	(ທູດໄຊ ທັງ	ōVe!	5.37	0) [2]	10,006		富岭	16 18	্ট উভি	is dys					10,2	
Q58.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using oral progress reports	46	4.98	1.31	37	5.19	1.17	-0.21	<b>\</b>	4.97	0.01	5.34	-0.36	1	4.99	-0.01	5.30	-0.32	1
Q59.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using written progress reports	47	5.98	0.90	37	5.81	1.13	0.17	1	5.83	0.15 ↑	5.89	0.09	,	5.97	0.01	5.76	0.22	1.
Q62.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use modern engineering tools specific to your primary academic major	46	5.74	1.25	38	6.00	0.99	-0.26		5.44	0.30 ↑	5.48	0.26	1	5.54	0.20 ↑	5.39	0.35	<b>↑</b>
Q67.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Pilot test a component prior to implementation	44	4.43	1.37	32	4.19	1.60	0.24	1	4.16	0.27 ↑	4.38	0.05	;	3.90	0.53 ↑	3.65	0.78	<b>↑</b>
Q68.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use text materials to support project design	47	5.62	1.24	36	5.44	1.18	0.18	1	5.33	0.29 ↑	5.70	-0.08		5.54	0.08	5.45	0.17	1

### Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

		[	2009's			2008's		Compar	rison					Previo	us Y	ear's D	ata				
			Data			Data				200	7's Data		200	6's Data	a	200	5's Dat	а	200	4's Dat	а
		N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow	Mean	Differer	ice	Mean	Differe	nce	Mean	Differe	ence	Mean	Differe	ince
	ন্ত বুল্লী 'পূৰ্ণাম ধ্ৰেয়জমানভতিত ব্যাণ্ড । ক্ষুপ্ৰত		ିର୍ଚ୍ଚ ନିର୍ବ	ເມີເ ເມື່ອ	ં ઉપદી	ଲିଉଡି	(61.7/G)	10 10 10 10		ē. 36	6 .016)		હ્યાં હાર્	1) (30	ari raij jaw	Çā	(6) (i) [-]		EG-1	- (d)  1(0)	d di
Q45.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of mathematics	48	6.00	1.05	38	6.37	0.79	-0.37	<b>+</b>	6.17	-0.17	<b>↓</b>	6.28	-0.28	1	6.21	-0.21	↓	6.22	-0.22	↓ ↓
Q46.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of science	48	6.04	0.90	38	6.34	0.78	-0.30		6.08	-0.04		6.20	-0.16		6.10	-0.06		6.22	-0.18	1
Q47.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply knowledge of engineering	48	6.21	1.09	38	6.18	1.01	0.03		6.15	0.06		6.03	0.18	1	6.03	0.18	î	6.14	0.07	
Q53.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Identify engineering problems	48	5.69	0.99	38	5.84	1.00	-0.15	<b>↓</b>	5.73	-0.04		6.05	-0.36	<b>†</b>	6.04	-0.35	1	6.00	-0.31	1
Q54.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Formulate engineering problems	48	5.56	0.99	37	5.70	1.08	-0.14	Į.	5.52	0.04		5.82	-0.26	1	5.74	-0.18	1	5.86	-0.30	<b>↓</b>
Q55.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering problems	48	6.27	0.82	38	6.13	0.91	0.14	Ť	6.06	0.21	1	6.06	0.21	1	6.25	0.02		6.20	0.07	
Q61.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand contemporary issues	47	5.23	1.35	37	5.35	1.16	-0.12	1	5.35	-0.12	1	5.23	0.00		4.75	0.48	1	5.12	0.11	î

# Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

		2009's	•		2008's		Compar	ison	·			Previous Y	'ear's [	Data		
		Data			Data				200	7's Data	200	06's Data	20	05's Data	200	04's Data
	N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow.	Mean	Difference	Mean	Difference	Mean	Difference	Mean	Difference
দিন্তিৰ্বান প্ৰিপ্তালীয়ালনে বিদ্যাধি তাল জিল্লান্ত্ৰপ্ৰস্থান	/\[ \( \text{\tin}\text{\teinte\text{\tex{\tex	- \$ (Si)	0 9	300	5 56	0.68	0:01	5.5 	5.66	iù oro	3.5	not the	( A.		કાર્લદ	୍ଗର ହିନ୍ତି
Q64. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Built on knowledge from previous course work	48	5.90	0.99	38	5.76	1.05	0.14	Ť	5.83	0.07	5.88	0.02	5.58	0.32 ↑	5.92	-0.02
Q65. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Built on skills from previous course work	48	5.83	1.08	38	5.87	0.91	-0.04		5.73	0.10 ↑	5.86	-0.03	5.55	0.28 ↑	5.82	0.01
Q66. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Incorporated engineering standards	47	5.06	1.33	38	5.13	1.12	-0.07		5.23	-0.17 ↓	5.20	-0.14 ↓	5.14	-0.08	5.24	-0.18 ↓

# Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

		2009's 2008's						Compar	rison	I				Previo	us Y	ear's [	Data				
			Data			Data				200	7's Data	<b>a</b> .	200	)6's Dat	a	200	05's Dat	a	200	4's Dat	a
		N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow	Mean	Differe	псе	Mean	Differe	ence	Mean	Differe	nce	Mean	Differe	ence
हिल्ल	<b>্</b> টি ট্রিন্ট্রিন <b>টি</b> র্ন্নেরিন্ত্রনাথনে নির্ভাগ্রেন	1/2	4 33		36	5 1022	11 (0)(6)			17.85	(a. 36	Įn,		المائدة المائدة				- <del>-</del>	   11 43	(1) (1)	
Q72.	System Design - To what degree did your system design experience address the following: Addressed Economic issues	48	5.42	1.47	38	5.89	1.18	-0.47	1	5.42	0.00		5.16		Ť	5.66	-0.24	<b>\</b>	5.63	-0.21	<b>↓</b>
Q73.	System Design - To what degree did your system design experience address the following: Addressed Environmental issues	48	4.58	1.54	38	5.53	1.31	-0.95		5.02	-0.44	1	4.88	-0.30	1	4.33	0.25	1	4.92	-0.34	ļ
Q74.	System Design - To what degree did your system design experience address the following: Addressed Social issues	48	3.75	1.60	37	4.27	1.37	-0.52	1	4.27	-0.52	1	4.20	-0.45	1	3.61	0.14	1	3.88	-0.13	<b>↓</b>
Q75.	System Design - To what degree did your system design experience address the following: Addressed Political issues	48	3.35	1.60	37	3.65	1.48	-0.30	1	3.65	-0.30	1	3.62	-0.27	1	3.03	0.32	1	3.24	0.11	1
Q76.	System Design - To what degree did your system design experience address the following: Addressed Ethical issues	48	3.96	1.66	38	4.71	1.45	-0.75	1	4.61	-0.65	1	4.45	-0.49	1	4.16	-0.20	1	4.04	-0.08	
Q77.	System Design - To what degree did your system design experience address the following: Addressed Health and Safety issues	48	4.83	1.40	38	5.39	1.39	-0.56	1	5.06	-0.23	1	4.92	-0.09		4.33	0.50	1	4.45	0.38	Ť
Q78.	System Design - To what degree did your system design experience address the following: Addressed Manufacturability issues	48	5.23	1.36	38	5.24	1.62	-0.01		5.18	0.05		4.84	0.39	1	4.65	0.58	1	4.61	0.62	<b>↑</b>
Q79.	System Design - To what degree did your system design experience address the following: Addressed Sustainability issues	48	5.15	1.46	38	5.45	1.22	-0.30	1.	5.08	0.07		4.83	0.32	î	4.53	0.62	1	4.73	0.42	1
Feroi	का १ <u>१</u> % प्रित्यकाकातम् विवादम् स्थितः	sk≅	0.35	ii, 0)ei	, j	(i.0)(i)	7.07	70,44					3.49		~ ;		Nagalan	F 11 . 1 W			
Q80.	Laboratory Facilities Degree that laboratory facilities: Established an atmosphere conducive to learning	48	5.56	1.07	38	5.18	1.37	0.38	Ť	5.47	0.09		5.43		1	5.41	0.15	î	5.27	0.29	<b>↑</b>
Q81.	Laboratory FacilitiesDegree that laboratory facilities: Fostered student/faculty interaction	48	5.50	1.25	38	5.00	1.23	0.50	î	5.67	-0.17	1	5.40	0.10	Ť	5.62	-0.12	1	5.08	0.42	1
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# Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

	·		2009's	,		2008's		Compai	rison	ĺ				Previo	us Y	ear's [	Data				
			Data			Data				200	7's Data	a	200	6's Dat	a	200	05's Dat	ta	200	4's Dat	:a
		N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow	Mean	Differe	nce	Mean	Differe	nce	Mean	Differe	ence	Mean	Differe	nce
Feet	ক াজ উপক্রালা Program ইনিক্তাপ্রনক্ত	·43	€ 1€	27	Γ sy <del>a</del> t	- (c) <sup>7</sup>	1 (e)				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						7000			10.33	
Q83.	The Bottom Line - Overall Satisfaction - Extent that the Undergraduate Engineering program experience fulfill expectations	48	5.25	1.33	37	5.00	1.37	0.25	Ť	4.92	0.33	1	5.22	0.03		5.24	0.01		5.04	0.21	1
Q84.	Comparing the expense to the quality of education, rate the value of the investment made in Undergraduate Engineering program	48	5.56	1.44	38	5.08	1.36	0.48	1	5.27	0.29	1	5.38	0.18	1	5.51	0.05		5.27	0.29	1
Q85.	How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering Major to a close friend	48	5.21	1.74	38	4.89	1.83	0.32	<b>↑</b>	4.41	0.80	1	5.02	0.19	1	5.04	0.17	1	4.63	0.58	1
Q86.	How inclined are you to recommend your: How inclined are you to recommend your Undergraduate Engineering School to a close friend	48	5.79	1.27	38	5.34	1.58	0.45	1	5.80	-0.01		5.66	0.13	<b>↑</b>	5.91	-0.12	<b>.</b>	5.75	0.04	
	friend			İ														•			

## Longitudinal: Five-Year Comparison for Engineering Major: Chemical/Molecular

		2009's Data				2008's		Compar	ison				1	Previo	y su	ear's D	ata				
			Data			Data				200	7's Data	a .	200	6's Dat	a	200	5's Data	a	200	4's Dat	a
		N	Mean	Std Dev	N	Mean	Std Dev	Difference	Arrow	Mean	Differe	nce	Mean	Differe	nce	Mean	Differe	nce	Mean	Differe	ince
NO11	हैं गिल्डिट व्यक्तिकार्यहाँ विशेष्य हैं। वर्षाइट व अवविष्ट कार्यका						36 8 16				Sandrahan (1971) a					1 To					
Q16.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Calculus	44	4.86	1.52	35	5.09	1.56	-0.23	1	5.05	-0.19	1	5.19	-0.33	<b>\</b>	4.55	0.31	î	5.09	-0.23	<b>\</b>
Q17.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Differential Equations	47	4.38	1.76	38	4.53	1.54	-0.15	1	4.94	-0.56	1	4.72	-0.34	1	4.20	0.18	1	4.50	-0.12	1
Q18.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Physics	45	4.00	1.72	34	4.12	1.85	-0.12		4.47	-0.47	<b>↓</b>	3.79	0.21	1	4.10	-0.10	1	3.31	0.69	<b>↑</b>
Q19.	Satisfaction with quality of teaching in required course work: (if course not taken on this campus, select "not applicable") Chemistry	47	5.72	1.14	38	5.50	1.13	0.22	<b>↑</b>	5.75	-0.03		5.69	0.03	,	5.52	0.20	î	5.86	-0.14	1
Q32.	Satisfaction with: Quality of Engineering classrooms	47	4.94	1.22	38	5.26	1.29	-0.32	1	4.86	0.08		5.22	-0.28	1	4.64	0.30	1	4.96	-0.02	
Q34.	Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty	47	4.30	1.94	38	4.58	1.95	-0.28	1	4.52	-0.22	1	4.52	-0.22	<b>↓</b>	4.47	-0.17	1	4.14	0.16	1
Q35.	Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by non-faculty	27	4.81	1.24	26	5.12	1.28	-0.31	↓ .	4.60	0.21	1	4.72	0.09		5.16	-0.35	1	5.41	-0.60	1
Q60.	Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Recognize need to engage in lifelong learning	48	5.67	1.46	37	5.73	1.17	-0.06		5.70	-0.03		5.78	-0.11	1	5.66	0.01		5.73	-0.06	
Q82.	Course Comparison - Quality of teaching in your Engineering courses compare to the quality of teaching in Non-Engineering courses on this campus	48	5.42	1.23	38	5.47	1.31	-0.05		5.08	0.34	1	5.16	0.26	î	5.47	-0.05		5.29	0.13	î