Survey Questions | Unit Standards

By Engineering Major: A listing of the ABET standards and the corresponding EBI Questions.

Order: 23973 > EBI Engineering Exit Assessment

Population: University of Wisconsin-Madison > All Respondents (no filter selected) **(611 responses)**

Report Selections Close

Comparison Groups:

- [x] Your Institution
- [x] Select 6
- [x] Carnegie Class
- [x] All Institutions

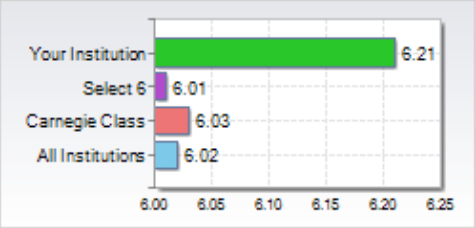
Unit Level: Engineering Major
Unit: Chemical/Molecular
Standard: ABET Engineering Accreditation Standards
Criteria: All Criteria

Show up to 100 Criteria per Report Page

Report Page 1 of 1

ABET Criterion 3 (a) an ability to apply knowledge of mathematics, science, and engineering

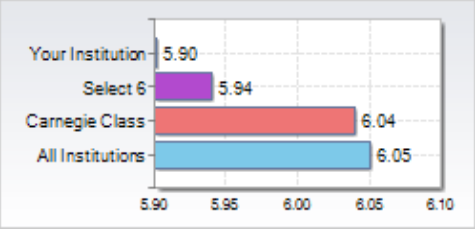
Q047. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply your knowledge of mathematics



	N	Mean	Std Dev
Your Institution	72	6.21	0.94

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	210	6.01	1.11	5.54	6.45	0.20	2
Carnegie Class	663	6.03	1.05	5.54	6.45	0.18	6
All Institutions	1083	6.02	1.03	5.33	6.45	0.19	10

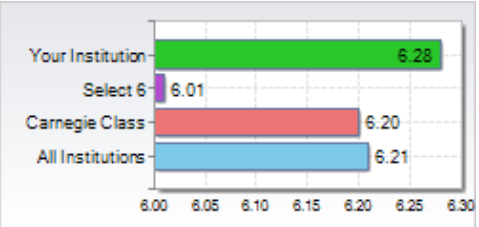
Q048. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply your knowledge of science



	N	Mean	Std Dev
Your Institution	72	5.9	1.13

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.94	1.1	5.38	6.35	-0.04	4
Carnegie Class	661	6.04	1.03	5.38	6.62	-0.14	16
All Institutions	1081	6.05	0.98	5.38	6.62	-0.15	27

Q049. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Apply your knowledge of engineering

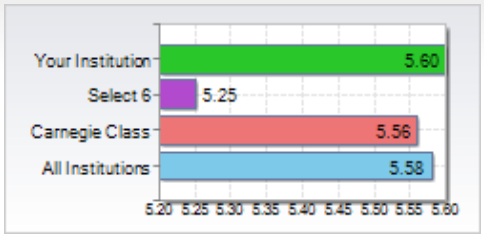


	N	Mean	Std Dev
Your Institution	71	6.28	0.91

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	208	6.01	1.14	5.41	6.39	0.27	3
Carnegie Class	658	6.2	0.99	5.41	6.85	0.08	11
All Institutions	1076	6.21	0.97	5.13	6.85	0.07	19

ABET Criterion 3 (b) an ability to design and conduct experiments, as well as to analyze and interpret data

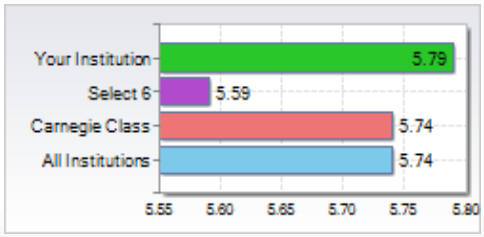
Q050. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design experiments



	N	Mean	Std Dev				
Your Institution	72	5.6	1.15				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.25	1.47	4.17	5.78	0.35	3
Carnegie Class	661	5.56	1.31	4.17	6.12	0.04	15
All Institutions	1077	5.58	1.27	4.07	6.22	0.02	22

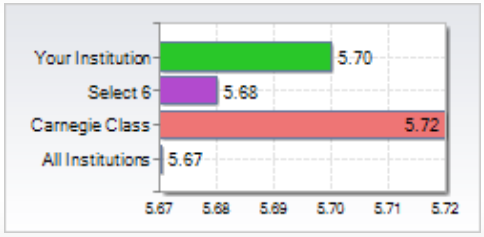
ABET Criterion 3 (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

Q053. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs



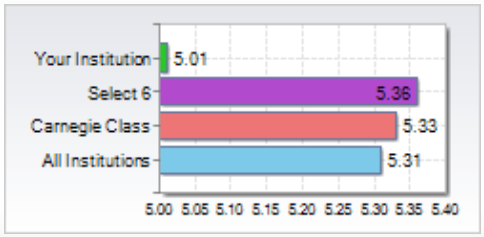
	N	Mean	Std Dev				
Your Institution	71	5.79	1.02				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	210	5.59	1.28	4.67	6.06	0.20	2
Carnegie Class	660	5.74	1.22	4.67	6.48	0.05	8
All Institutions	1077	5.74	1.19	4.2	6.5	0.05	18

Q074. System Design - To what degree did your system design experience address the following: Economic issues



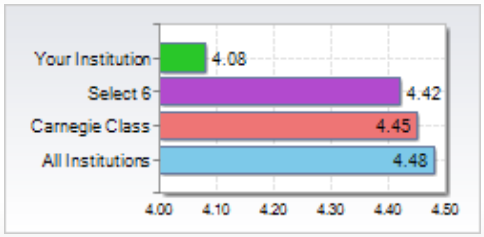
	N	Mean	Std Dev				
Your Institution	71	5.7	1.01				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	206	5.68	1.24	5.42	5.88	0.02	3
Carnegie Class	647	5.72	1.27	4.11	6.38	-0.02	13
All Institutions	1059	5.67	1.26	4.11	6.69	0.03	21

Q075. System Design - To what degree did your system design experience address the following: Environmental issues



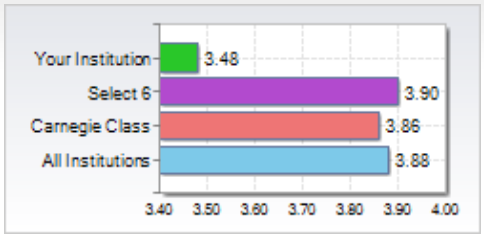
	N	Mean	Std Dev				
Your Institution	71	5.01	1.33				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	206	5.36	1.3	4.75	5.87	-0.35	6
Carnegie Class	649	5.33	1.32	4.11	6	-0.32	19
All Institutions	1063	5.31	1.31	4.11	6	-0.30	32

Q076. System Design - To what degree did your system design experience address the following: Social issues



	N	Mean	Std Dev				
Your Institution	71	4.08	1.35				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	194	4.42	1.52	3.7	4.83	-0.34	4
Carnegie Class	632	4.45	1.51	3.7	5.33	-0.37	19
All Institutions	1041	4.48	1.49	3.23	5.46	-0.40	32

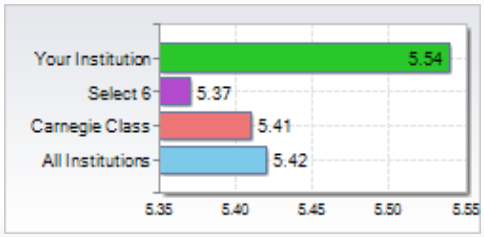
Q077. System Design - To what degree did your system design experience address the following: Political issues



	N	Mean	Std Dev				
Your Institution	71	3.48	1.4				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	189	3.9	1.66	2.86	4.53	-0.42	4
Carnegie Class	621	3.86	1.62	2.86	4.67	-0.38	19
All Institutions	1026	3.88	1.64	2.69	5.17	-0.40	32

ABET Criterion 3 (d) an ability to function on multi-disciplinary teams

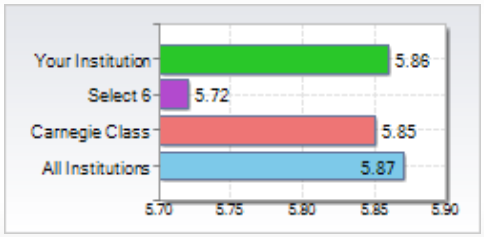
Q054. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Function on multidisciplinary teams



	N	Mean	Std Dev				
Your Institution	71	5.54	1.2				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	208	5.37	1.52	4.42	6.08	0.17	3
Carnegie Class	648	5.41	1.53	4.42	6.11	0.13	8
All Institutions	1057	5.42	1.52	4.38	6.25	0.12	15

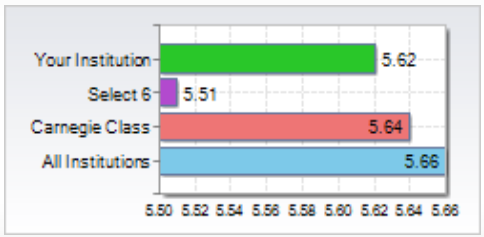
ABET Criterion 3 (e) an ability to identify, formulate, and solve engineering problems

Q055. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Identify engineering problems



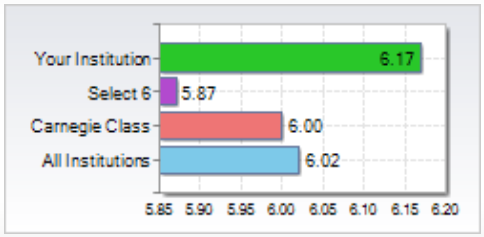
	N	Mean	Std Dev				
Your Institution	72	5.86	1.02				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.72	1.19	4.83	6.07	0.14	3
Carnegie Class	660	5.85	1.12	4.83	6.22	0.01	14
All Institutions	1079	5.87	1.08	4.83	6.37	-0.01	24

Q056. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Formulate engineering problems



	N	Mean	Std Dev				
Your Institution	71	5.62	1.03				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.51	1.23	4.64	6.01	0.11	2
Carnegie Class	660	5.64	1.21	4.64	6.06	-0.02	12
All Institutions	1075	5.66	1.16	4.64	6.6	-0.04	21

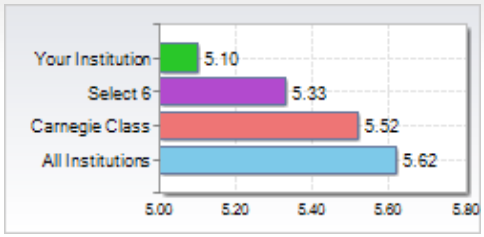
Q057. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Solve engineering problems



	N	Mean	Std Dev				
Your Institution	72	6.17	0.85				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.87	1.13	5	6.23	0.30	2
Carnegie Class	660	6	1.04	5	6.46	0.17	8
All Institutions	1079	6.02	1	5	6.85	0.15	14

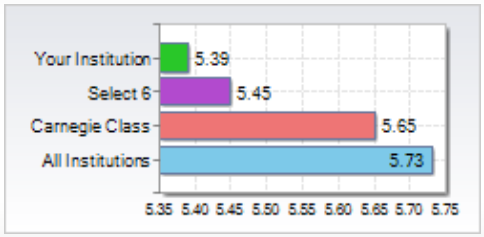
ABET Criterion 3 (f) an understanding of professional and ethical responsibility

Q058. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand ethical responsibilities



	N	Mean	Std Dev				
Your Institution	71	5.1	1.44				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.33	1.51	3.89	6.25	-0.23	4
Carnegie Class	661	5.52	1.4	3.89	6.25	-0.42	17
All Institutions	1076	5.62	1.35	3.89	6.53	-0.52	31

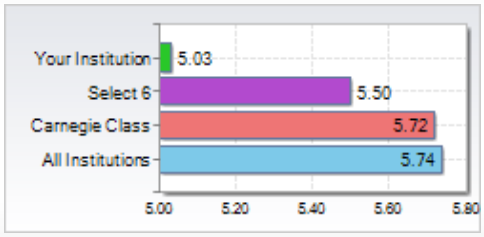
Q059. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand professional responsibility



	N	Mean	Std Dev				
Your Institution	71	5.39	1.43				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.45	1.49	4.41	6.09	-0.06	5
Carnegie Class	660	5.65	1.33	4.41	6.23	-0.26	19
All Institutions	1076	5.73	1.28	4.41	6.47	-0.34	33

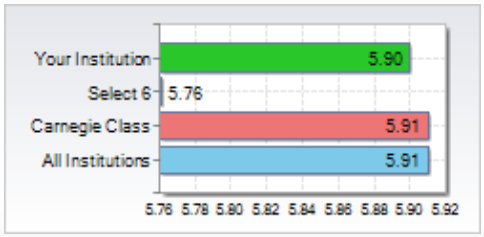
ABET Criterion 3 (g) an ability to communicate effectively

Q060. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using oral progress reports



	N	Mean	Std Dev				
Your Institution	72	5.03	1.32				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.5	1.44	4.51	6.04	-0.47	6
Carnegie Class	661	5.72	1.32	4.51	6.47	-0.69	21
All Institutions	1076	5.74	1.24	4.08	6.62	-0.71	35

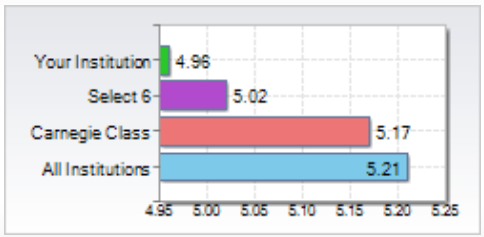
Q061. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Communicate using written progress reports



	N	Mean	Std Dev				
Your Institution	71	5.9	1.16				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.76	1.29	4.76	6.33	0.14	4
Carnegie Class	656	5.91	1.2	4.67	6.54	-0.01	11
All Institutions	1076	5.91	1.15	4.13	6.69	-0.01	22

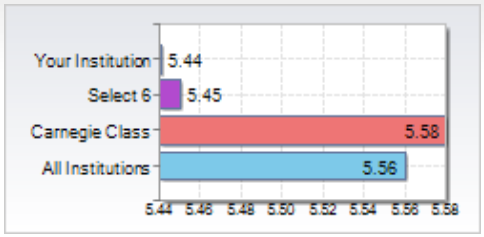
ABET Criterion 3 (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

Q071. To what degree did your engineering education enhance your ability to understand the impact of engineering solutions in: A global/societal context



	N	Mean	Std Dev				
Your Institution	72	4.96	1.43				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.02	1.38	4.32	5.67	-0.06	4
Carnegie Class	656	5.17	1.33	4.32	5.67	-0.21	18
All Institutions	1070	5.21	1.32	3.93	6.11	-0.25	31

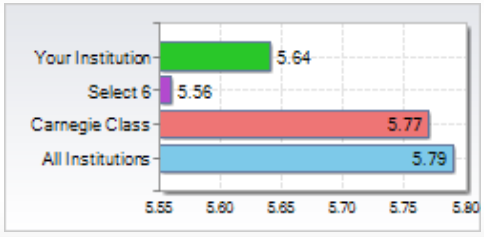
Q072. To what degree did your engineering education enhance your ability to understand the impact of engineering solutions in: An economic context



	N	Mean	Std Dev				
Your Institution	72	5.44	1.13				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.45	1.28	4.92	5.71	-0.01	4
Carnegie Class	656	5.58	1.25	4.67	6.38	-0.14	16
All Institutions	1073	5.56	1.26	4.53	6.38	-0.12	26

ABET Criterion 3 (i) a recognition of the need for, and an ability to engage in life-long learning

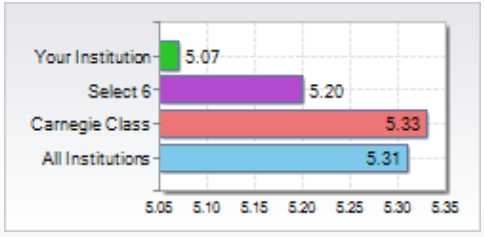
Q062. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Recognize need to engage in lifelong learning



	N	Mean	Std Dev				
Your Institution	72	5.64	1.37				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	208	5.56	1.52	4.46	6.09	0.08	4
Carnegie Class	656	5.77	1.35	4.46	6.54	-0.13	17
All Institutions	1073	5.79	1.32	4.46	6.69	-0.15	28

ABET Criterion 3 (j) a knowledge of contemporary issues

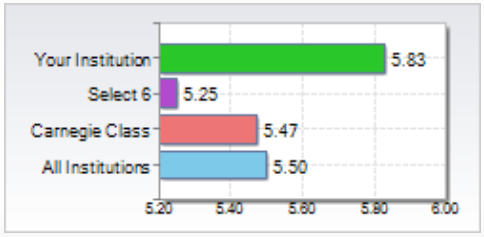
Q063. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand contemporary issues



	N	Mean	Std Dev				
Your Institution	72	5.07	1.26				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	207	5.2	1.5	4.05	5.88	-0.13	5
Carnegie Class	651	5.33	1.38	4.05	5.88	-0.26	22
All Institutions	1061	5.31	1.35	4.05	6.23	-0.24	35

ABET Criterion 3 (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

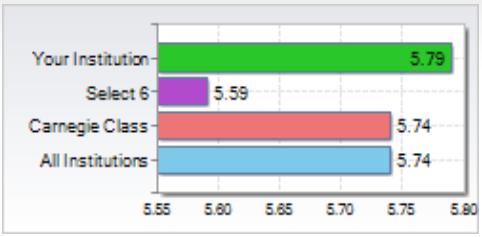
Q064. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use modern engineering tools specific to your primary academic major



	N	Mean	Std Dev				
Your Institution	72	5.83	1				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	210	5.25	1.49	4.38	5.96	0.58	2
Carnegie Class	661	5.47	1.42	4.38	6.11	0.36	9
All Institutions	1077	5.5	1.36	3.6	6.42	0.33	14

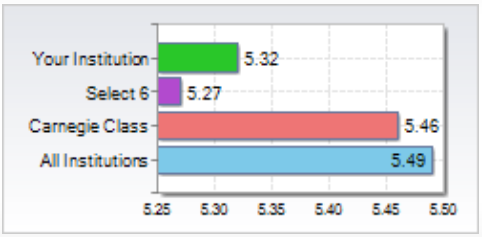
ABET Criterion 4 Major Design Experience

Q053. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Design a system, component, or process to meet desired needs



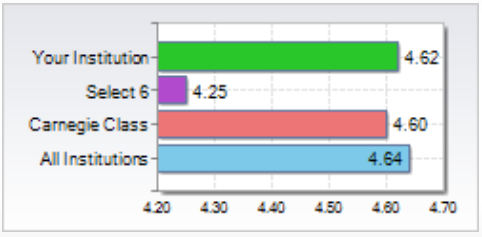
	N	Mean	Std Dev				
Your Institution	71	5.79	1.02				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	210	5.59	1.28	4.67	6.06	0.20	2
Carnegie Class	660	5.74	1.22	4.67	6.48	0.05	8
All Institutions	1077	5.74	1.19	4.2	6.5	0.05	18

Q068. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Incorporate engineering standards



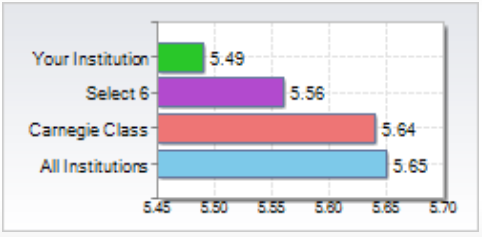
	N	Mean	Std Dev				
Your Institution	69	5.32	1.23				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	194	5.27	1.43	4.03	5.75	0.05	4
Carnegie Class	640	5.46	1.34	4.03	6.31	-0.14	19
All Institutions	1051	5.49	1.31	4.03	6.4	-0.17	30

Q069. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Pilot test a component prior to implementation



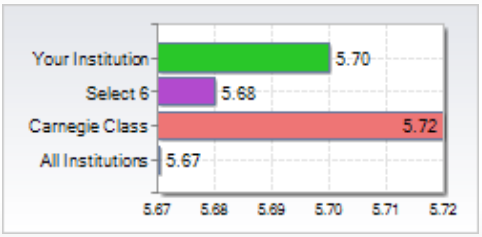
	N	Mean	Std Dev				
Your Institution	71	4.62	1.38				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	195	4.25	1.76	3.06	4.95	0.37	2
Carnegie Class	608	4.6	1.68	3.06	5.67	0.02	12
All Institutions	1001	4.64	1.62	2.79	5.67	-0.02	22

Q070. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Use text materials to support project design



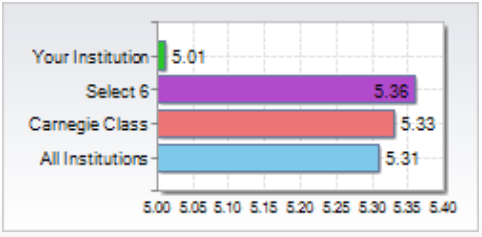
	N	Mean	Std Dev				
Your Institution	72	5.49	1.05				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	206	5.56	1.18	4.89	6.26	-0.07	3
Carnegie Class	648	5.64	1.21	4.89	6.26	-0.15	16
All Institutions	1066	5.65	1.23	3.93	6.4	-0.16	26

Q074. System Design - To what degree did your system design experience address the following: Economic issues



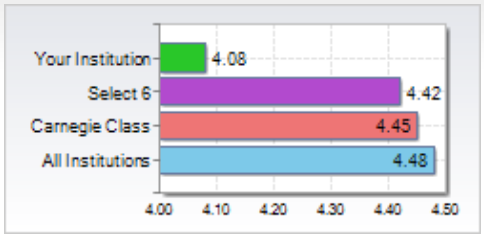
	N	Mean	Std Dev				
Your Institution	71	5.7	1.01				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	206	5.68	1.24	5.42	5.88	0.02	3
Carnegie Class	647	5.72	1.27	4.11	6.38	-0.02	13
All Institutions	1059	5.67	1.26	4.11	6.69	0.03	21

Q075. System Design - To what degree did your system design experience address the following: Environmental issues



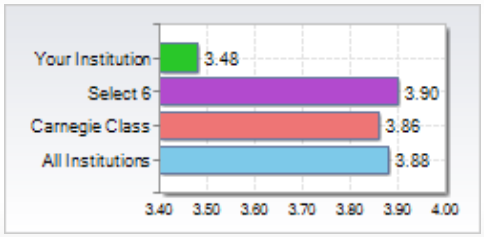
	N	Mean	Std Dev				
Your Institution	71	5.01	1.33				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	206	5.36	1.3	4.75	5.87	-0.35	6
Carnegie Class	649	5.33	1.32	4.11	6	-0.32	19
All Institutions	1063	5.31	1.31	4.11	6	-0.30	32

Q076. System Design - To what degree did your system design experience address the following: Social issues



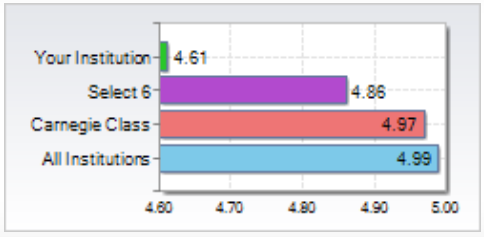
	N	Mean	Std Dev				
Your Institution	71	4.08	1.35				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	194	4.42	1.52	3.7	4.83	-0.34	4
Carnegie Class	632	4.45	1.51	3.7	5.33	-0.37	19
All Institutions	1041	4.48	1.49	3.23	5.46	-0.40	32

Q077. System Design - To what degree did your system design experience address the following: Political issues



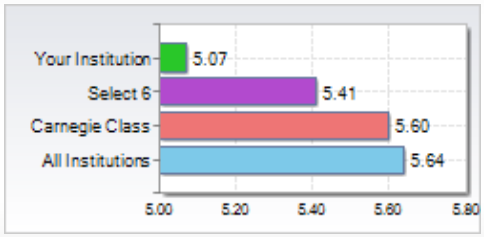
	N	Mean	Std Dev				
Your Institution	71	3.48	1.4				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	189	3.9	1.66	2.86	4.53	-0.42	4
Carnegie Class	621	3.86	1.62	2.86	4.67	-0.38	19
All Institutions	1026	3.88	1.64	2.69	5.17	-0.40	32

Q078. System Design - To what degree did your system design experience address the following: Ethical issues



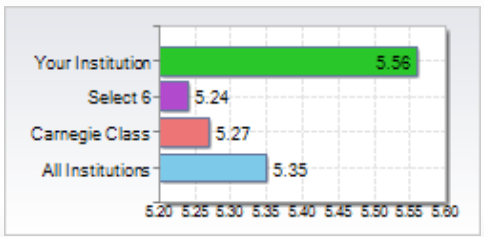
	N	Mean	Std Dev				
Your Institution	71	4.61	1.44				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	205	4.86	1.56	3.86	6	-0.25	4
Carnegie Class	646	4.97	1.55	3.86	6	-0.36	16
All Institutions	1056	4.99	1.54	3.57	6.4	-0.38	29

Q079. System Design - To what degree did your system design experience address the following: Health and Safety issues



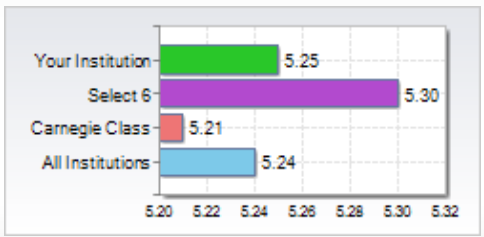
	N	Mean	Std Dev				
Your Institution	71	5.07	1.28				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	208	5.41	1.41	4.09	6.08	-0.34	5
Carnegie Class	649	5.6	1.33	4.09	6.43	-0.53	20
All Institutions	1064	5.64	1.29	4.09	6.69	-0.57	34

Q080. System Design - To what degree did your system design experience address the following: Manufacturability issues



	N	Mean	Std Dev				
Your Institution	70	5.56	1.14				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	206	5.24	1.43	4.33	5.83	0.32	2
Carnegie Class	646	5.27	1.47	4.33	6	0.29	5
All Institutions	1058	5.35	1.42	4.33	6.38	0.21	13

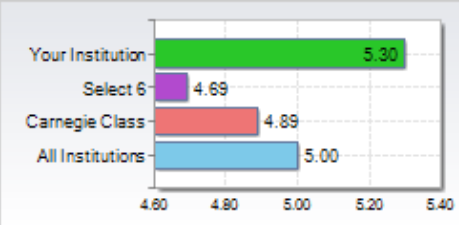
Q081. System Design - To what degree did your system design experience address the following: Sustainability issues



	N	Mean	Std Dev				
Your Institution	71	5.25	1.29				
	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	208	5.3	1.35	4.42	5.67	-0.05	4
Carnegie Class	647	5.21	1.43	4.42	5.85	0.04	12
All Institutions	1059	5.24	1.42	3.8	6.38	0.01	22

ABET Criterion 5 Faculty

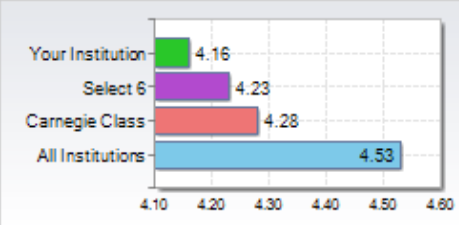
Q015. Instruction and Faculty in your Engineering Major Quality of: Teaching



	N	Mean	Std Dev
Your Institution	70	5.3	0.93

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	200	4.69	1.4	3.38	5.62	0.61	2
Carnegie Class	666	4.89	1.23	3.38	5.62	0.41	4
All Institutions	1092	5	1.21	3.13	6.32	0.30	10

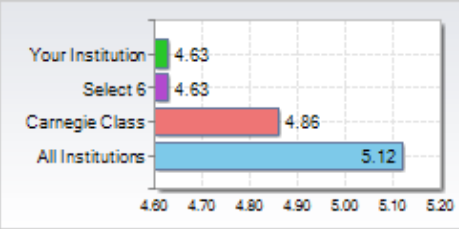
Q016. Instruction and Faculty in your Engineering Major Quality of: Feedback on assignments (other than grades)



	N	Mean	Std Dev
Your Institution	70	4.16	1.18

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	201	4.23	1.36	3.04	4.79	-0.07	4
Carnegie Class	663	4.28	1.29	3.04	4.79	-0.12	17
All Institutions	1087	4.53	1.29	3.04	6.15	-0.37	32

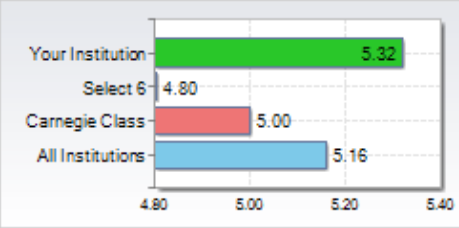
Q017. Instruction and Faculty in your Engineering Major Quality of: Student/faculty interaction



	N	Mean	Std Dev
Your Institution	70	4.63	1.06

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	201	4.63	1.45	3.71	5.46	0.00	4
Carnegie Class	666	4.86	1.38	3.71	6.04	-0.23	17
All Institutions	1091	5.12	1.39	3.71	6.77	-0.49	30

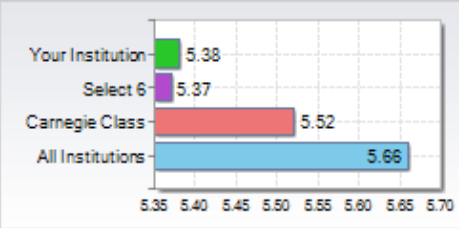
Q022. Satisfaction with: Grades in engineering major courses accurately reflecting your level of performance



	N	Mean	Std Dev
Your Institution	72	5.32	1.23

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	211	4.8	1.53	3.83	5.57	0.52	2
Carnegie Class	671	5	1.53	2.67	6.17	0.32	7
All Institutions	1095	5.16	1.51	2.67	6.46	0.16	16

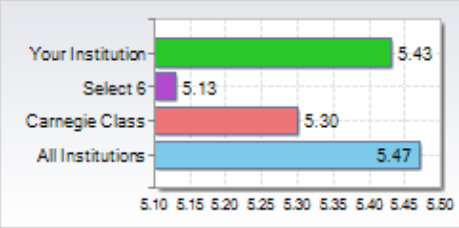
Q023. Satisfaction with: Accessibility of engineering major course instructors outside of class



	N	Mean	Std Dev
Your Institution	72	5.38	1.21

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	209	5.37	1.42	4.73	6.08	0.01	5
Carnegie Class	669	5.52	1.31	4.73	6.42	-0.14	18
All Institutions	1094	5.66	1.27	3.87	6.72	-0.28	30

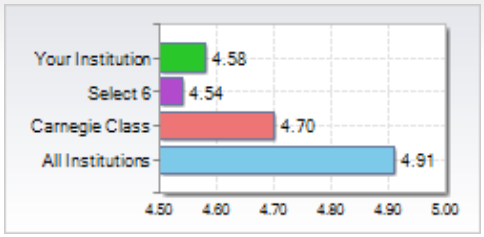
Q024. Satisfaction with: Responsiveness of engineering major course instructors to student concerns



	N	Mean	Std Dev
Your Institution	70	5.43	1.06

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	212	5.13	1.52	4.17	5.88	0.30	3
Carnegie Class	673	5.3	1.39	4.17	6.12	0.13	11
All Institutions	1096	5.47	1.3	4.07	6.38	-0.04	22

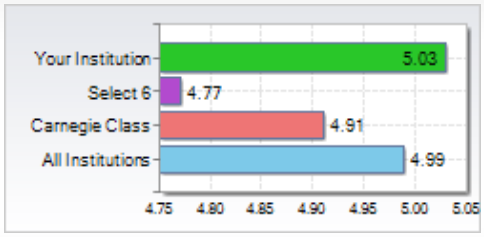
Q025. Satisfaction with: Amount of work required of you in your engineering major courses



	N	Mean	Std Dev
Your Institution	71	4.58	1.39

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	212	4.54	1.59	3.65	4.96	0.04	5
Carnegie Class	672	4.7	1.52	3.65	5.83	-0.12	17
All Institutions	1095	4.91	1.46	3.65	6.26	-0.33	31

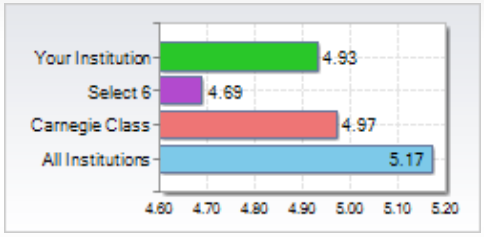
Q026. Satisfaction with: Engineering curriculum instructors presentation of technology issues



	N	Mean	Std Dev
Your Institution	67	5.03	1.06

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	206	4.77	1.45	3.95	5.77	0.26	3
Carnegie Class	657	4.91	1.38	3.95	5.91	0.12	9
All Institutions	1076	4.99	1.31	3.8	6.05	0.04	18

Q036. Advising/Computing - Advising/Computing - Satisfaction with: Academic advising by faculty

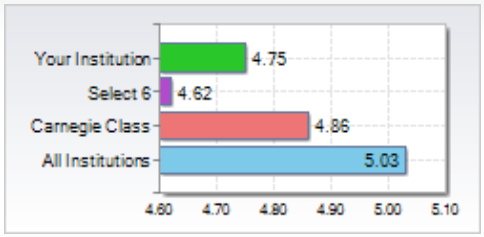


	N	Mean	Std Dev
Your Institution	72	4.93	1.68

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	212	4.69	2.01	3.57	5.75	0.24	5
Carnegie Class	666	4.97	1.89	3.57	6.67	-0.04	17
All Institutions	1090	5.17	1.79	3.57	6.67	-0.24	28

ABET Criterion 6 Facilities

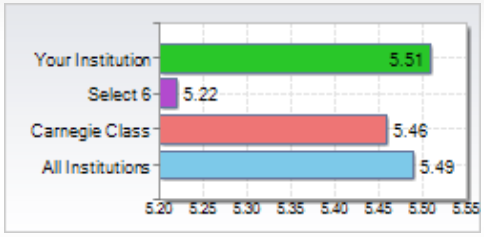
Q034. Satisfaction with: Quality of Engineering classrooms



	N	Mean	Std Dev
Your Institution	71	4.75	1.36

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	212	4.62	1.65	3.92	5.42	0.13	3
Carnegie Class	668	4.86	1.59	3.57	6.29	-0.11	16
All Institutions	1090	5.03	1.57	2.87	6.38	-0.28	27

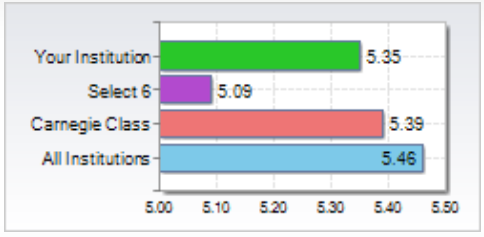
Q082. Laboratory Facilities



	N	Mean	Std Dev
Your Institution	72	5.51	1.2

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	197	5.22	1.46	3.77	6.25	0.29	4
Carnegie Class	649	5.46	1.43	3.77	6.33	0.05	15
All Institutions	1068	5.49	1.38	3.57	6.45	0.02	24

Q083. Laboratory Facilities



	N	Mean	Std Dev
Your Institution	72	5.35	1.31

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	197	5.09	1.61	3.86	6.12	0.26	4
Carnegie Class	648	5.39	1.51	3.86	6.12	-0.04	14
All Institutions	1065	5.46	1.45	3.43	6.54	-0.11	25

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Report Page 1 of 1

back to top