2011 EBI Senior Exit Survey

Slight change in Select 6

UT-Austin, Northwestern, U of Southern California, Carnegie Mellon U, UC-San Diego, +Columbia, -Auburn

UW CBE returns: 76/83 (Dec. and May)

Results posted to assessment.che.wisc.edu site

Peer comparisons (Q15-88) Select 6, Carnegie, all

UW longitudinal comparisons (ABET/EBI factors)

Continuing Concerns:

Physics – low vs. Chemistry, Math; CoE ongoing issue

ABET a-k grid

Advising – chart shows decline reversing

Teamwork – slight recovery, still below peers

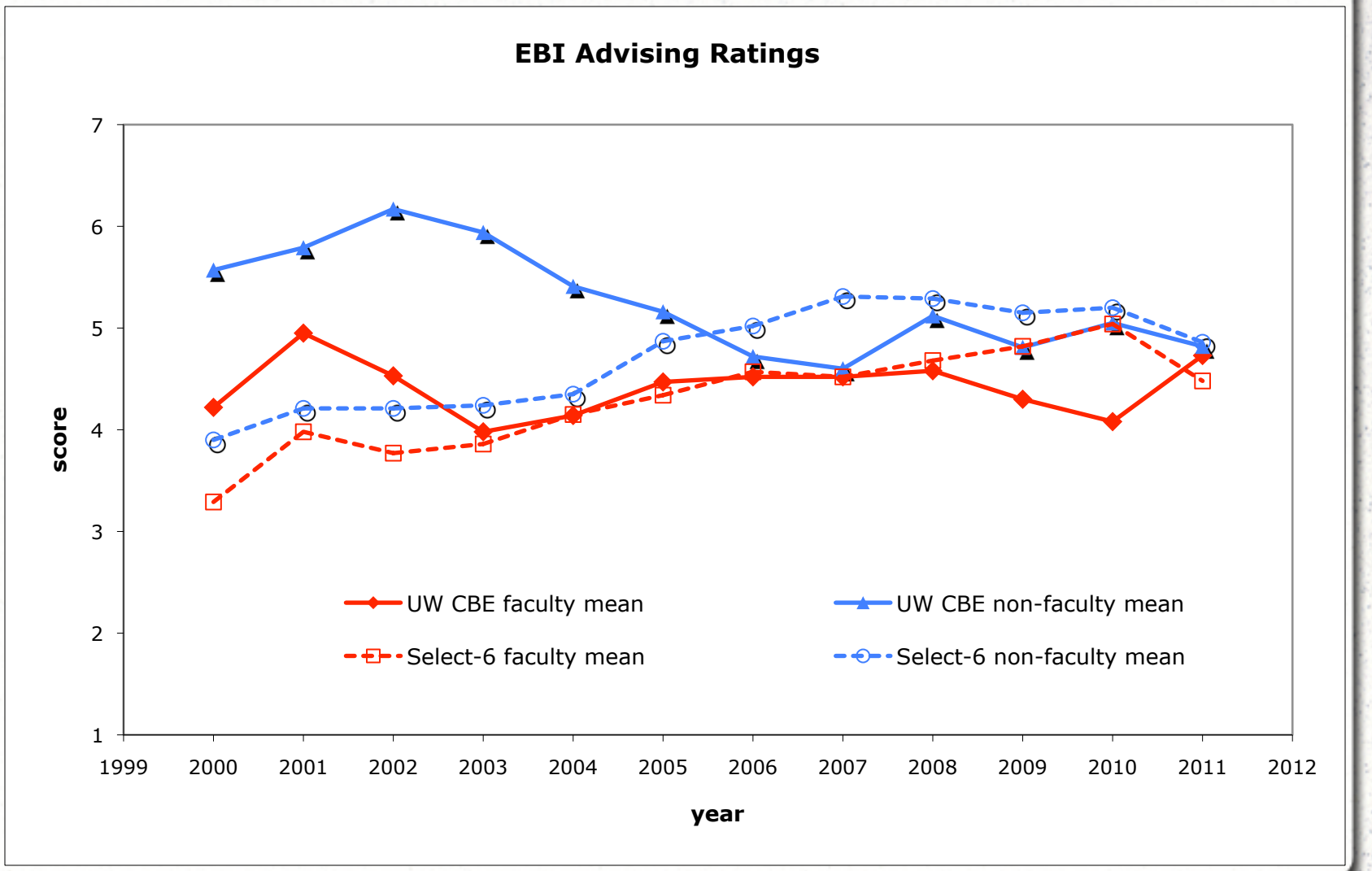
Watch from last year:

concern with quality of education – staying up

societal impact (down to 4.8 in 2010, back to xx now)

ABET Outcome	EBI Survey Question *To what degree did your engineering education enhance your ability*		09-10	99 - '10 average	2010-11	change from average	change from last year
A) an ability to apply knowledge of mathematics, science, and engineering	47	apply your knowledge of mathematics	5.85	6.17	6.21	0.04	0.36
	48	apply your knowledge of science	5.69	6.05	6.09	0.04	0.40
	49	apply your knowledge of engineering	6.12	6.03	6.30	0.27	0.18
B) an ability to design and conduct experiments, as well as to analyze and interpret data	50	design experiments	5	5.32	5.55	0.23	0.55
	51	conduct experiments	5.77	5.84	5.84	0.00	0.07
	52	analyze and interpret data	6.28	6.23	6.29	0.06	0.01
C) an ability to design a system, component, or process to meet desired needs	53	design a system, component, or process to meet desired needs	5.38	5.55	5.72	0.17	0.34
D) an ability to function on multi-disciplinary teams	40	satisfaction with characteristics of your fellow students ability to work in teams	5.35	5.63	5.66	0.03	0.31
	54	Function in multidisciplinary teams	5.46	5.36	5.29	-0.07	-0.17
E) an ability to identify, formulate, and solve engineering problems	57	solve engineering problems	6.12	6.15	5.96	-0.19	-0.16
	56	Identify engineering problems	5.73	5.82	5.45	-0.37	-0.28
	55	formulate engineering problems	5.46	5.60	5.70	0.10	0.24
F) an understanding of professional and ethical responsibility	58	understand ethical responsibility	5	4.67	4.74	0.07	-0.26
G) an ability to communicate effectively	60	communicate using oral progress reports	5.12	5.04	5.01	-0.03	-0.11
	61	communicate using written progress reports	5.69	5.79	5.80	0.01	0.11
	70	use text materials to support project design	5.17	5.43	5.57	0.14	0.40
H) the broad education necessary to understand the impact of engineering solutions in a global and societal context	71	understand the impact of engineering solutions in a global/societal context	4.81	4.62	4.89	0.27	0.08
I) a recognition of the need for, and an ability to engage in life-long learning	62	recognize need to engage in life long learning	5.85	5.59	5.87	0.28	0.02
J) a knowledge of contemporary issues	63	understand contemporary issues	5.08	5.02	5.03	0.01	-0.05
K) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	64	use modern engineering tools	5.46	5.41	5.59	0.18	0.13
		average	5.52	5.57	5.63	0.06	0.11

Advising


EBI Advising Ratings
score
7
6
5
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1999
2000
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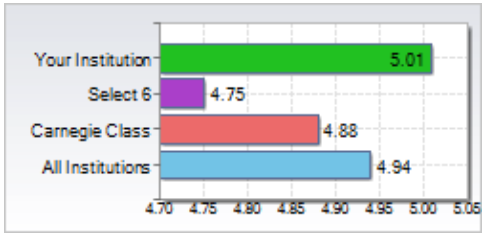
2008
2009
2010
2011
2012
year
UW CBE faculty mean
UW CBE non-faculty mean
Select-6 faculty mean
Select-6 non-faculty mean

Highest and Lowest Scores

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

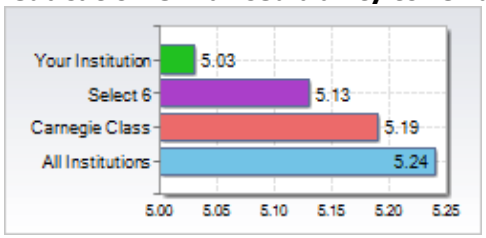


	N	Mean	Std Dev
Your Institution	76	5.01	1.09

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	224	4.75	1.21	3.76	5.01	0.26	1 of 7
Carnegie Class	747	4.88	1.22	3.76	6.25	0.13	8 of 27
All Institutions	1075	4.94	1.22	3.76	6.25	0.07	13 of 41

Availability of courses in major also high rating

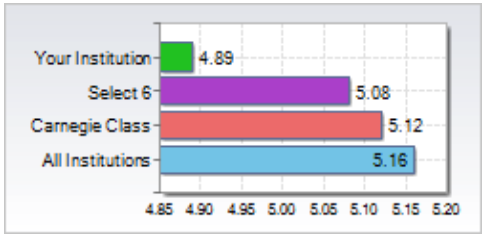
63. Program Outcomes and Assessment - Skill Development - Degree that engineering education enhanced ability to: Understand contemporary issues



	N	Mean	Std Dev
Your Institution	76	5.03	1.51

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	246	5.13	1.31	4.52	5.59	-0.10	4 of 7
Carnegie Class	737	5.19	1.33	4.49	6	-0.16	20 of 27
All Institutions	1055	5.24	1.31	4.49	6	-0.21	32 of 41

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



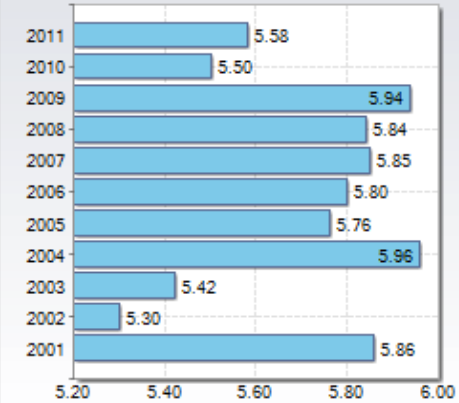
	N	Mean	Std Dev
Your Institution	75	4.89	1.45

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	248	5.08	1.36	4.43	5.41	-0.19	4 of 7
Carnegie Class	741	5.12	1.4	4.37	6.5	-0.23	18 of 27
All Institutions	1061	5.16	1.38	4.37	6.5	-0.27	31 of 41

Course Availability

Q032. Satisfaction with: Average size of major courses

Scale: (1) Very dissatisfied, (2) Moderately dissatisfied, (3) Slightly dissatisfied, (4) Neutral, (5) Slightly satisfied, (6) Moderately satisfied, (7) Very satisfied, Not applicable

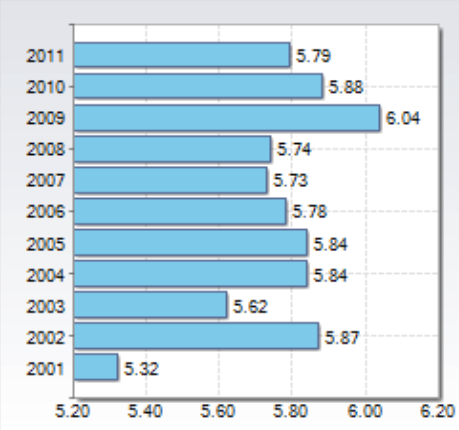


	N	Mean	Std Dev	Difference
2011	76	5.58	1.16	0.00
2010	26	5.50	1.07	**0.08**

	Mean	Difference
2009	5.94	**-0.36**
2008	5.84	**-0.26**
2007	5.85	**-0.27**
2006	5.80	**-0.22**
2005	5.76	**-0.18**
2004	5.96	**-0.38**
2003	5.42	**0.16**
2002	5.30	**0.28**
2001	5.86	**-0.28**

Q033. Satisfaction with: Availability of courses in major

Scale: (1) Very dissatisfied, (2) Moderately dissatisfied, (3) Slightly dissatisfied, (4) Neutral, (5) Slightly satisfied, (6) Moderately satisfied, (7) Very satisfied, Not applicable

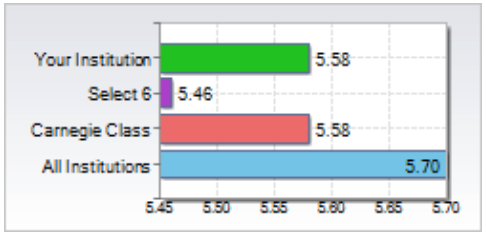


	N	Mean	Std Dev	Difference
2011	75	5.79	1.41	0.00
2010	26	5.88	1.03	**-0.09**

	Mean	Difference
2009	6.04	**-0.25**
2008	5.74	**0.05**
2007	5.73	**0.06**
2006	5.78	**0.01**
2005	5.84	**-0.05**
2004	5.84	**-0.05**
2003	5.62	**0.17**
2002	5.87	**-0.08**
2001	5.32	**0.47**

Course Availability

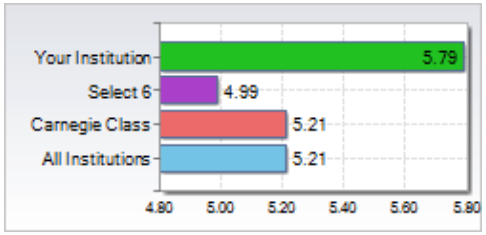
32. Satisfaction with: Average size of major courses



	N	Mean	Std Dev
Your Institution	76	5.58	1.15

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	254	5.46	1.36	5.15	6.21	0.12	4 of 7
Carnegie Class	764	5.58	1.4	4.64	7	0.00	18 of 27
All Institutions	1092	5.7	1.33	4.64	7	-0.12	27 of 41

33. Satisfaction with: Availability of courses in major



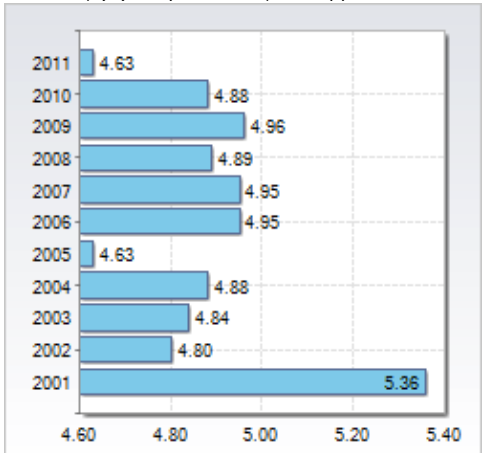
	N	Mean	Std Dev
Your Institution	75	5.79	1.4

	N	Mean	Std Dev	Min	Max	Difference	Rank
Select 6	254	4.99	1.61	4.52	5.82	0.80	2 of 7
Carnegie Class	765	5.21	1.61	3.94	6.67	0.58	8 of 27
All Institutions	1091	5.21	1.6	3.94	6.67	0.58	10 of 41

UW CBE Longitudinal Trends

Q022. Satisfaction with: Grades in major courses accurately reflecting students' level of performance

Scale: (1) Very dissatisfied, (2) Moderately dissatisfied, (3) Slightly dissatisfied, (4) Neutral, (5) Slightly satisfied, (6) Moderately satisfied, (7) Very satisfied, Not applicable

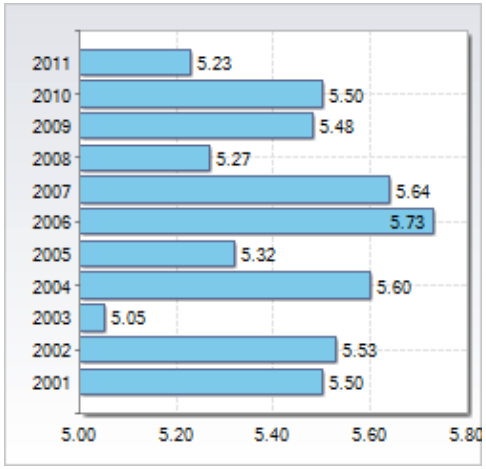


	N	Mean	Std Dev	Difference
2011	76	4.63	1.57	0.00
2010	26	4.88	1.42	**-0.25**

	Mean	Difference
2009	4.96	**-0.33**
2008	4.89	**-0.26**
2007	4.95	**-0.32**
2006	4.95	**-0.32**
2005	4.63	0.00
2004	4.88	**-0.25**
2003	4.84	**-0.21**
2002	4.80	**-0.17**
2001	5.36	**-0.73**

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

Scale: (1) Very dissatisfied, (2) Moderately dissatisfied, (3) Slightly dissatisfied, (4) Neutral, (5) Slightly satisfied, (6) Moderately satisfied, (7) Very satisfied, Not applicable



	N	Mean	Std Dev	Difference
2011	75	5.23	1.23	0.00
2010	26	5.50	0.99	**-0.27**

	Mean	Difference
2009	5.48	**-0.25**
2008	5.27	**-0.04**
2007	5.64	**-0.41**
2006	5.73	**-0.50**
2005	5.32	**-0.09**
2004	5.60	**-0.37**
2003	5.05	**0.18**
2002	5.53	**-0.30**
2001	5.50	**-0.27**

Watched Scores

- 52 - analyze and interpret data : above average, high absolute
- 40 - satisfaction with fellow students on teams – rising
- Lowest absolute – political issues, work in courses
- Comparisons with Select-6 peer group – work in courses, ethics, advising by faculty improving, designing experiments
- Decreasing longitudinal comparisons – size of major courses, fellow student quality, companies recruiting on campus rising
- Action needs
  - Advising improvements continue
  - Teamwork
  - Communications – Oral and Written