## Pittsburgh Freshman Engineering Attitudes Survey\* Weights for Attitude Measures M. Besterfield-Sacre\*\*, C.J. Atman, and L.J. Shuman

## Statements 1-28

		Measure						Normalized	
Number	Statement	Perception	Career	Jobs	Society	Math	Exact	Family	Weight
12	Eng are inno	0.680							0.166
22	Eng fix wor	0.672							0.164
25	Eng are crea	0.670							0.163
28	Technology	0.585							0.143
17	Eng is respe	0.552							0.135
18	Like profess	0.526							0.128
27	Enjoy figuri	0.416							0.101
1	Expect eng	rewarding ca	0.661						0.124
2	Expect study	ying rewardii	0.645						0.121
4	Don't care for	or this career	-0.642						0.120
3	Adv. outwe	igh disadv	0.609						0.114
7	No desire to change maje		0.608						0.114
8	Rewards of eng degree n		-0.601						0.113
5	Future bene	fits worth it	0.555						0.104
9	Eng boring		-0.532						0.100
6	Other major	s more rewa	-0.477						0.090
23	Eng guarant	tee job		0.745					0.301
14	No problem	find a job		0.715					0.289
21	Study eng fo	or \$\$		0.511					0.206
10	Eng well pa	id		0.504					0.204
20	Eng improve welfare soc				0.829				0.519
11	Eng make world better				0.768				0.481
19	Enjoy liberal arts more					-0.831			0.525
13	Enjoy math/science					0.753			0.475
15	Eng exact science						0.819		0.516
26	Eng precise answers						0.767		0.484
24	Parents want me to be er							0.873	0.586
16	Parents forc	ing eng						0.617	0.414

## Statements 29-35

		Mea	Normalized	
Number	Statement	Basic	Comm	Weight
30	Physics abil	0.740		0.244
32	Eng ability	0.708		0.233
31	Calculus abi	0.678		0.224
29	Chemistry a	0.512		0.169
35	Computer a	0.395	0.317	0.130/0.161
33	Writing abil		0.830	0.422
34	Speaking ab		0.819	0.416

<sup>\*</sup>Note: Components 1 and 2 share Statement 35 due to the relative weak relationship to both measures

## Statements 36-50

			Normalized			
Number	Statement	Ability	Compatible	Groups	Study	Weights
50	Enjoy diff w	0.789				0.247
49	Enjoy open-	0.776				0.244
38	Creative this	0.563				0.177
42	Confident in	0.539				0.169
40	Strong prob	0.521				0.163
47	Mechanicall		0.791			0.303
48	Technically	inclined	0.767			0.294
36	Know what		0.528			0.202
44	Good at des	igning	0.525			0.201
41	Friends stu		0.368			*
43	Prefer study			0.854		0.385
37	Group bette			-0.806		0.363
45	Have not en			0.560		0.252
46	Confident in				0.840	0.501
39	Need more				-0.836	0.499

<sup>\*</sup> Supported by the EiF98.4 Perception vs. Performance: The Effects of Gender and Ethnicity across Engineering Schools
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