

# Supplemental Material

*CBE—Life Sciences Education*

Carter-Veale *et al.*

Table A.1 Distribution of Propensity Scores for Participating in the DH (Derived from the Logit Regression Model in Table 1)

	DH Program			Total		DH Program		
	No DH Participant	DH Participant	Total			No DH Participant	DH Participant	Total
Predicted probability .00300	1	0	1	.06936	1	0	1	
.00401	1	0	1	.06966	3	0	3	
.00537	1	0	1	.07060	13	1	14	
.00586	1	0	1	.07073	2	1	3	
.00592	1	0	1	.07091	3	0	3	
.00646	3	0	3	.07098	5	2	7	
.00711	1	0	1	.07256	1	0	1	
.00719	3	0	3	.07320	2	0	2	
.00784	2	0	2	.07363	5	0	5	
.00798	10	0	10	.07420	2	0	2	
.00863	1	0	1	.07490	19	6	25	
.00879	14	0	14	.07571	5	0	5	
.00909	11	0	11	.07728	8	1	9	
.00915	3	0	3	.07769	3	0	3	
.00951	2	0	2	.07836	2	0	2	
.00969	18	0	18	.07941	2	0	2	
.00980	2	1	3	.08057	3	0	3	
.01002	4	0	4	.08097	1	1	2	
.01067	23	1	24	.08119	4	0	4	
.01079	8	0	8	.08175	1	0	1	
.01103	11	0	11	.08195	16	2	18	
.01110	4	0	4	.08264	1	0	1	
.01175	13	0	13	.08284	3	0	3	
.01189	5	0	5	.08308	1	0	1	
.01215	9	0	9	.08454	11	3	14	
.01222	3	0	3	.08490	1	0	1	
.01251	1	0	1	.08498	4	0	4	
.01271	4	0	4	.08571	1	0	1	
.01294	17	1	18	.08684	3	0	3	
.01309	5	0	5	.08760	1	0	1	
.01338	1	0	1	.08811	1	0	1	
.01346	4	0	4	.08960	14	2	16	
.01399	3	0	3	.09035	1	0	1	
.01425	19	0	19	.09056	1	0	1	
.01441	8	0	8	.09210	1	0	1	
.01473	9	0	9	.09241	9	1	10	
.01482	3	0	3	.09280	1	0	1	
.01540	7	0	7	.09289	3	0	3	
.01569	16	0	16	.09573	1	0	1	
.01587	3	0	3	.09675	3	0	3	
.01622	7	0	7	.09789	10	0	10	
.01631	2	0	2	.09893	6	2	8	

Table A.1 Distribution of Propensity Scores for Participating in the DH (Derived from the Logit Regression Model in Table 1)

	DH Program				DH Program		
	No DH Participant	DH Participant	Total		No DH Participant	DH Participant	Total
.01656	1	0	1	.09922	1	0	1
.01696	6	0	6	.10093	9	1	10
.01727	17	0	17	.10135	1	0	1
.01747	6	0	6	.10145	3	0	3
.01779	1	0	1	.10363	1	0	1
.01785	5	0	5	.10452	2	1	3
.01838	0	2	2	.10562	3	1	4
.01881	7	0	7	.10587	17	0	17
.01901	17	0	17	.10686	8	0	8
.01923	4	0	4	.10774	1	0	1
.01965	7	0	7	.10798	7	1	8
.01976	3	0	3	.10978	2	0	2
.01978	1	0	1	.11014	4	0	4
.02006	2	0	2	.11060	1	0	1
.02070	9	0	9	.11070	3	0	3
.02091	25	3	28	.11402	2	0	2
.02116	10	0	10	.11521	1	1	2
.02140	3	0	3	.11548	14	0	14
.02152	4	0	4	.11654	11	0	11
.02154	1	0	1	.11776	1	0	1
.02162	13	0	13	.11808	0	1	1
.02174	3	1	4	.11898	2	1	3
.02194	1	0	1	.11959	4	0	4
.02207	2	0	2	.11969	2	0	2
.02225	1	0	1	.12008	7	3	10
.02278	14	0	14	.12069	1	0	1
.02301	36	0	36	.12323	2	0	2
.02304	6	0	6	.12426	2	0	2
.02327	7	0	7	.12554	0	1	1
.02370	0	1	1	.12583	11	0	11
.02378	11	0	11	.12712	10	0	10
.02392	5	0	5	.12800	1	0	1
.02413	1	0	1	.12828	5	0	5
.02428	1	0	1	.12864	1	0	1
.02494	1	0	1	.13026	6	0	6
.02505	8	0	8	.13037	0	1	1
.02531	13	1	14	.13078	4	0	4
.02534	6	0	6	.13132	1	0	1
.02560	7	0	7	.13248	1	0	1
.02590	5	0	5	.13417	1	0	1
.02604	3	0	3	.13528	8	0	8
.02616	12	0	12	.13642	1	0	1

Table A.1 Distribution of Propensity Scores for Participating in the DH (Derived from the Logit Regression Model in Table 1)

	DH Program		Total		DH Program		Total
	No DH Participant	DH Participant			No DH Participant	DH Participant	
.02631	4	0	4	.13666	3	0	3
.02654	3	0	3	.13697	7	0	7
.02665	4	0	4	.13820	1	0	1
.02670	2	0	2	.13836	8	0	8
.02692	0	1	1	.13929	0	1	1
.02755	10	0	10	.13999	2	0	2
				.14102	2	0	2
.02787	6	0	6	.14172	3	1	4
.02815	8	0	8	.14185	1	0	1
.02848	4	0	4	.14229	2	0	2
.02877	5	0	5	.14463	2	0	2
.02893	2	0	2	.14592	2	0	2
.02918	3	0	3	.14712	1	0	1
.02930	3	0	3	.14834	0	1	1
.02936	1	0	1	.14859	1	0	1
.02952	1	0	1	.14893	5	3	8
.02960	3	0	3	.14907	2	0	2
.03029	10	0	10	.15042	4	1	5
.03064	6	0	6	.15142	3	0	3
.03095	2	0	2	.15216	3	0	3
.03131	4	0	4	.15327	5	1	6
.03148	2	0	2	.15402	7	2	9
.03151	1	0	1	.15415	0	1	1
.03208	0	1	1	.15463	4	0	4
.03228	1	0	1	.15524	1	0	1
.03254	1	0	1	.15658	5	0	5
.03315	1	0	1	.15713	3	0	3
.03330	7	2	9	.16110	1	0	1
.03368	8	0	8	.16173	7	3	10
.03441	3	0	3	.16188	0	1	1
.03460	2	0	2	.16332	5	3	8
.03511	9	0	9	.16638	2	3	5
.03525	1	0	1	.16718	3	2	5
.03540	1	0	1	.16848	4	1	5
.03566	1	0	1	.16991	1	0	1
.03659	10	0	10	.17050	4	0	4
.03663	1	0	1	.17157	0	2	2
.03700	7	0	7	.17474	1	0	1
.03747	1	0	1	.17503	1	0	1
.03780	5	0	5	.17541	8	2	10
.03801	5	0	5	.17711	10	1	11
.03805	1	0	1	.18036	1	0	1

Table A.1 Distribution of Propensity Scores for Participating in the DH (Derived from the Logit Regression Model in Table 1)

	DH Program		Total		DH Program		Total
	No DH Participant	DH Participant			No DH Participant	DH Participant	
.03858	6	0	6	.18122	7	0	7
.03873	2	0	2	.18137	1	0	1
.03889	1	1	2	.18413	1	0	1
.03917	2	0	2	.18476	4	0	4
.04001	0	1	1	.18589	1	0	1
.04019	11	1	12	.18998	6	3	9
.04064	7	1	8	.19016	1	0	1
.04083	1	0	1	.19179	4	0	4
.04116	1	0	1	.19525	4	0	4
.04152	2	0	2	.19616	6	2	8
.04175	5	0	5	.19764	1	0	1
.04237	5	0	5	.19925	0	1	1
.04271	2	0	2	.19992	4	1	5
.04413	14	1	15	.20471	1	0	1
.04463	7	0	7	.20546	5	2	7
.04558	3	0	3	.20738	6	2	8
.04583	0	1	1	.21105	3	2	5
.04588	2	0	2	.21201	3	0	3
.04651	5	1	6	.21600	2	0	2
.04669	1	0	1	.22107	1	1	2
.04722	4	0	4	.22186	7	2	9
.04734	11	0	11	.22389	5	3	8
.04822	1	0	1	.22618	1	0	1
.04844	19	1	20	.22777	2	1	3
.04898	16	0	16	.22878	3	0	3
.04960	1	0	1	.23299	3	1	4
.05002	3	0	3	.23433	1	0	1
.05030	3	1	4	.23834	2	0	2
.05073	1	0	1	.23918	4	0	4
.05104	5	1	6	.23938	0	1	1
.05124	4	0	4	.24131	4	1	5
.05144	3	1	4	.24540	2	1	3
.05194	22	0	22	.24646	0	1	1
.05291	1	0	1	.25010	2	0	2
.05314	17	0	17	.25089	2	0	2
.05363	10	0	10	.25739	0	1	1
.05373	7	2	9	.25964	1	2	3
.05393	5	0	5	.26504	2	0	2
.05487	6	0	6	.26886	2	0	2
.05517	6	0	6	.26969	3	4	7
.05565	4	0	4	.27464	2	0	2
.05598	5	0	5	.27557	2	0	2

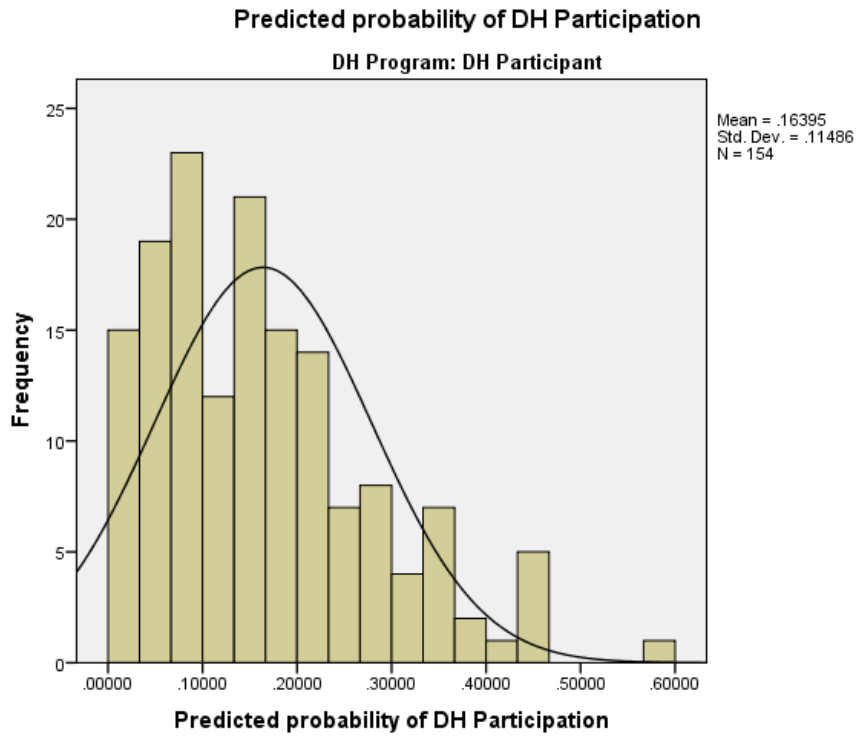
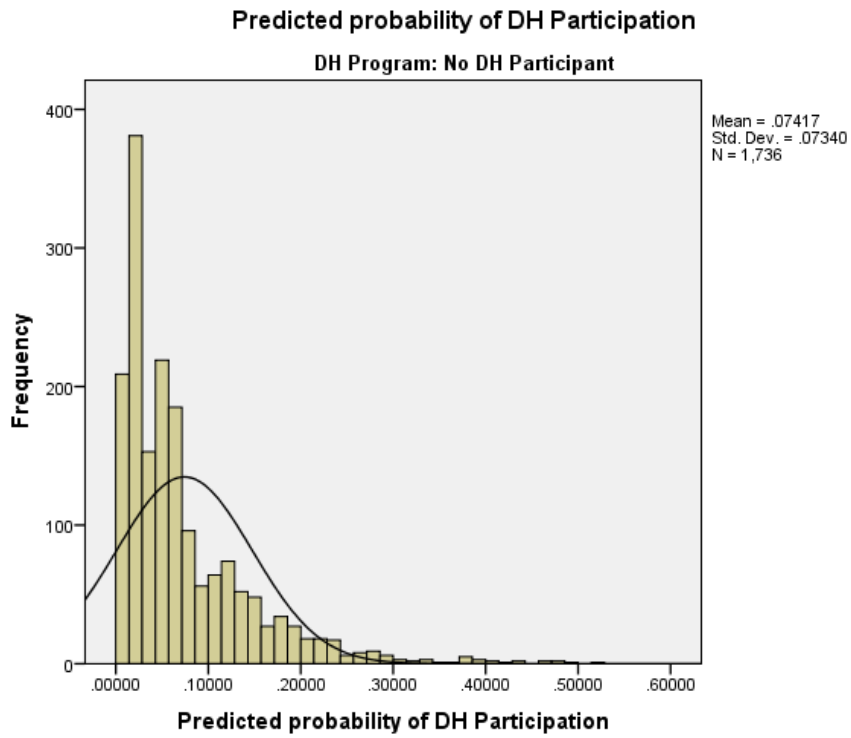
Table A.1 Distribution of Propensity Scores for Participating in the DH (Derived from the Logit Regression Model in Table 1)

	DH Program		Total		DH Program		Total
	No DH Participant	DH Participant			No DH Participant	DH Participant	
.05620	4	0	4	.27672	1	0	1
.05642	4	2	6	.27884	3	2	5
.05682	1	0	1	.28149	0	1	1
.05696	24	1	25	.28332	1	0	1
.05746	1	0	1	.28875	2	0	2
.05760	2	0	2	.28934	1	1	2
.05802	2	0	2	.29889	3	0	3
.05827	8	0	8	.30671	1	2	3
.05834	1	0	1	.30920	1	1	2
.05881	5	0	5	.30983	1	0	1
.05892	13	0	13	.31520	0	1	1
.05913	4	0	4	.31621	1	0	1
.06016	6	0	6	.32261	1	0	1
.06049	9	0	9	.33044	1	0	1
.06101	1	0	1	.33108	1	0	1
.06137	5	0	5	.33536	0	1	1
.06161	12	0	12	.33665	0	1	1
.06185	1	0	1	.34196	1	0	1
.06229	1	0	1	.34972	0	3	3
.06244	17	3	20	.35239	1	0	1
.06298	1	0	1	.35879	1	2	3
.06313	2	0	2	.37498	2	0	2
.06332	1	0	1	.38019	0	1	1
.06359	1	0	1	.38155	3	0	3
.06394	2	0	2	.38715	1	0	1
.06445	13	0	13	.39813	2	1	3
.06457	5	0	5	.40484	1	0	1
.06480	6	0	6	.41056	1	0	1
.06593	3	0	3	.42174	1	0	1
.06625	1	0	1	.42856	0	1	1
.06628	2	0	2	.43438	1	0	1
.06685	1	0	1	.44282	1	1	2
.06724	4	0	4	.44572	0	2	2
.06750	2	0	2	.45263	0	1	1
.06758	1	0	1	.45850	1	1	2
.06776	2	0	2	.46703	1	0	1
.06824	3	0	3	.47547	1	0	1
.06841	16	1	17	.48283	1	0	1
.06916	4	0	4	.49139	1	0	1
				.51580	1	0	1
				.57977	0	1	1

**Table A2. Descriptive Statistics for Entire Sample in Table 1**

	N	m	Maximum	Mean	Deviation
PhD Graduate	1890	0	1	.45	.498
Left UMBC	1890	0	1	.31	.463
Continuing	1890	0	1	.36	.481
Year began PhD Program	1890	2000	2012	2006	3.546
Gender	1890	0	1	.48	.500
Asian	1890	0	1	.09	.281
Black	1890	0	1	.10	.297
Multi-Ethnic	1890	0	1	.00	.069
Unknown	1890	0	1	.06	.233
International	1890	0	1	.30	.458
White	1890	0	1	.42	.493
Hispanic	1890	0	1	.02	.156
Native American	1890	0	1	.01	.114
STEM	1890	0	1	.87	.334
Propensity Score	1890	.00300	.57977	0.08	0.08
Engineering	1890	0	1	.17	.380
Humanities	1890	0	1	.06	.246
Life Sciences	1890	0	1	.11	.311
Physical Sciences	1890	0	1	.41	.491
Social Sciences	1890	0	1	.24	.430
DH Program Participation	1890	0	1	.08	.274
Valid N (listwise)	1890				

### Appendix 3. Propensity Score Distribution Before Matching





## Appendix 4. Propensity Score Distribution After Matching

