

Summary

In looking at DE courses from Fall 2009 to Spring 2016, there have been significant improvements in success and retention rates in general and in most disciplines. Since the DE certificates have been awarded starting in December 2014, there have been 65 instructors earning the certificates, with varying times of completion. Based on their completion dates, a "pre" and "post" periods were determined to evaluate success rates in online courses. While there is a significant positive difference in success rates, deeper explorations of the data are needed to reach a definitive conclusion. Limitations at this time include: 1) Most instructors do not have post-DE certification records. 2) Out of 65 instructors, only 6 have both pre and post data (i.e. data that can be paired). 3) Analysis of DE certified instructors include grades up to Fall 2015, because it was done prior to Spring 2016 grades reported.A26

TABS:

A. List of Instructors: 65 DE certificates with dates of completion - to be used as demarcation line for pre and post scores.

B. Success and Retention Rates of Courses Taught by Instructors with DE certifications (both pre- and post-certification): In aggregate, there is a huge improvement in success rates from pre-certification to post-certification (59.2% to 69.7%). T-tests found results strongly significant ($p < .01$). Please see tables in TAB B for details. However lack of paired samples makes the result inconclusive, i.e. DE certification is possibly not the only factor in play.

C. Success and Retention Rates of all DE Courses. Using Spring 2015 as the separation line, there is improvement in success and retention rates

D. Success and Retention Rates of traditional (in class) sections of courses that are also offered online. This is presented for comparison to success and retention rates of DE courses.

E. Success Rates by Section in courses by DE Certified Instructors. Same analysis as in B and C, but data points are success rates in sections, rather than individual grades given.

F. Paired samples of DE certified instructors with Pre and Post Data.

G. Demographics of DE students (NOT COMPLETED)

	PRE	POST	TOTAL
Grades Given	6847	1433	8280
Success rate	59.2%	69.7%	61.0%

Last	First	Discipline	Division	Completion Date	Completion Snapsh	Instr_No
Adams	Alexi	Human Development	BCTE	December 2014	20143ET	2126934
Armbruster	Lynda	Marketing	BCTE	December 2014	20143ET	1027987
Diaz	Darlene	Mathematics	M&S	December 2014	20143ET	1030688
Foley	Denise	Biology	M&S	December 2014	20143ET	1026955
Grasso	Tia	Business Law and Women's Studies	BCTE and Humanities	December 2014	20143ET	1032737
Griffin	Nora	Sociology	Humanities	December 2014	20143ET	1350826
Jasieniecki	Carol	Political Science	Humanities	December 2014	20143ET	1158943
Kuznetsov	Kira	Mathematics	M&S	December 2014	20143ET	1056817
Moore	Kathy	Mathematics	M&S	December 2014	20143ET	1025799
Ngan-Winward	Vivian	Biology	M&S	December 2014	20143ET	2103302
Pacier	Phillip	Music	Humanities	December 2014	20143ET	1058786
Rodriguez	David	Water	BCTE	December 2014	20143ET	2072858
Samuels	Charlotte	Political Science	Humanities	December 2014	20143ET	1084521
Smith	Mark	Biology	M&S	December 2014	20143ET	1027860
Wagner	Joyce	Mathematics	M&S	December 2014	20143ET	1029014
Andrade	Anthony	Surveying	BCTE	June 2015	20151ET	1166372
Aust	John	Real Estate	BCTE	June 2015	20151ET	1028648
Barbre	Jean	Human Development	BCTE	June 2015	20151ET	1385961
Cartwright	Mitch	Surveying	BCTE	June 2015	20151ET	1029534
Chantana	Nissa	Psychology	Humanities	June 2015	20151ET	1059219
Clatterbuck	Shelby	Human Development	BCTE	June 2015	20151ET	2120261
Counts	Kevin	Surveying	BCTE	June 2015	20151ET	1027826
Day	Charmaine	History	Humanities	June 2015	20151ET	1029029
Deeley	Steven	Business	BCTE	June 2015	20151ET	1029907
El Said	Nahla	Chemistry	M&S	June 2015	20151ET	1030962
Glynn	Jeff	Surveying	BCTE	June 2015	20151ET	1028855
Haro	Anthony	Surveying	BCTE	June 2015	20151ET	1026440
Hartshorn	Nicole	Art	Humanities	June 2015	20151ET	1066911
Hermen	Lisa	Kinesiology	M&S	June 2015	20151ET	1027710
Kibbe	Joseph	Accounting/Quickbooks	BCTE	June 2015	20151ET	1811706
Kirchen	DeAnna	Accounting	BCTE	June 2015	20151ET	2146743
Kow	Chu	Surveying	BCTE	June 2015	20151ET	1320394
Lorton	Melinda	Mathematics	M&S	June 2015	20151ET	1059413
Lui	Anson	Biology	M&S	June 2015	20151ET	1025388
Martinez	Elaine	Kinesiology	M&S	June 2015	20151ET	1975327
Miller	Marty	Surveying	BCTE	June 2015	20151ET	1287658
Miller	Robbie	Art	Humanities	June 2015	20151ET	1028384
Pimentel	Marcelo	Philosophy	Humanities	June 2015	20151ET	1026541
Stansbury	DeAnna	English	Humanities	June 2015	20151ET	2085270
Sullivan	Richard	Surveying	BCTE	June 2015	20151ET	1058743
Vhora	Mohammed	Biology	M&S	June 2015	20151ET	1114994
Walker	Kathryn	Psychology	Humanities	June 2015	20151ET	1171317
Wohlgezogen	Laura	Mathematics	M&S	June 2015	20151ET	2147165
Yorba	Joseph	Mathematics	M&S	June 2015	20151ET	1027648
Brierley	Mike	Apprenticeship	BCTE	October 2015	20153ET	1430860
Eidenmuller	Heather	Nutrition	M&S	December 2015	20153ET	1390555
Eperjesi	Kevin	Political Science	Humanities	December 2015	20153ET	1029100
Frost	Alicia	Mathematics	M&S	December 2015	20153ET	1030946
Gates	Alana	Real Estate	BCTE	December 2015	20153ET	1787963
Higgins	Rita	Nutrition	M&S	December 2015	20153ET	1029039
Kubicka-Miller	Tara	Communication	Humanities	December 2015	20153ET	1030925
Lamourelle	Regina	Human Development	BCTE	December 2015	20153ET	1029143
Lombard	Karen	Economics	Humanities	December 2015	20153ET	1649169
Martin	Linda	Library Science	IEL	December 2015	20153ET	1027564
Melendez	Luz	Human Development	Humanities	December 2015	20153ET	1055264
Pruznick	Jennifer	Human Development	Humanities	December 2015	20153ET	1028614
Rivers	Mike	Apprenticeship	BCTE	October 2015	20153ET	1026762
Ryan	Thomas	Biology	M&S	December 2015	20153ET	1812597
Ryen	Jason	Apprenticeship	BCTE	October 2015	20153ET	1895921
Said	Asma	Physics	M&S	December 2015	20153ET	1916924
Sundberg	Daryl	Apprenticeship	BCTE	October 2015	20153ET	1367363
Taylor	Michael	Biology	M&S	December 2015	20153ET	1027229
Vidal-Prudholme	Laura	Human Development	BCTE	December 2015	20153ET	1913725
Womack	Melinda	Communication	Humanities	December 2015	20153ET	1028149
Woodford	Kevin	Apprenticeship	BCTE	October 2015	20153ET	

SUBTOTAL

65

SUCCESS RATES BY SUBJECT (All DE Courses)

	2009-2016		Fall 2009	Spr 2010	Sum 2010	Fall 2010	Spr 2011	Sum 2011	Fall 2011	Spr 2012	Sum 2012	Fall 2012	Spr 2013	Sum 2013	Fall 2013	Int 2014	Spr 2014	Sum 2014	Fall 2014	Int 2015	Spr 2015	Sum 2015	Fall 2015	Inter 2016	Spr 2016	
Subject	Total Grades Given	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate	n	Success Rate
ACCT	1523	#																								
ART	45	#																								
ASV	11	#																								
BIOL	263	#																								
BUS	4780	#	333	55%																						
CHEM	161	#	26	62%	29																					
CIS	832	#	20	45%																						
CMPR	1605	#	33	52%																						
CNLR	1164	#	40	55%	81																					
COMM	230	#																								
ECON	541	#	53	28%	48																					
HIST	5938	#	375	21%																						
HUD	1650	#	75	52%	69																					
KIN (EXER)	1988	#	47	62%	90																					
LIB	522	#	70	51%	80																					
MATH	2622	#	73	59%	74																					
MGMT	1045	#	53	53%	88																					
MKTG	2169	#	114	71%																						
MUS	154	#																								
PBLC	162	#	30	77%	39																					
PHIL	138	#																								
POLT	3338	#	130	55%																						
PSYC	4150	#	133	58%																						
RE	3415	#	343	58%																						
SOC	2115	#	94	49%																						
SURV	228	#																								
THEA	539	#	63	57%	34																					
WATR	128	#																								
ALL	41455	#####	69%	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	

	Prior to Spr 2015	Spr 2015 and After	TOTAL
Grades Given	#####	#####	#####
Success Rate	#####	#####	#####

RETENTION RATES BY SUBJECT (All DE Courses)

	2009-2016		Fall 2009	Spr 2010	Sum 2010	Fall 2010	Spr 2011	Sum 2011	Fall 2011	Spr 2012	Sum 2012	Fall 2012	Spr 2013	Sum 2013	Fall 2013	Int 2014	Spr 2014	Sum 2014	Fall 2014	Int 2015	Spr 2015	Sum 2015	Fall 2015	Inter 2016	Spr 2016	
Subject	Total Grades Given	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate	n	Retention Rate
ACCT	1523	#																								
ART	45	#																								
ASV	11	#																								
BIOL	263	#																								
BUS	4780	#	333	77%																						
CHEM	161	#	26	73%	29																					
CIS	832	#	20	60%																						
CMPR	1605	#	33	75%																						
CNLR	1164	#	40	75%	81																					
COMM	230	#																								
ECON	541	#	53	49%	48																					
HIST	5938	#	375	51%																						
HUD	1650	#	75	75%	69																					
KIN	1988	#	47	70%	90																					
LIB	522	#	70	66%	80																					
MATH	2622	#	73	74%	74																					
MGMT	1045	#	53	75%	88																					
MKTG	2169	#	114	74%																						
MUS	154	#																								
PBLC	162	#	30	80%	39																					
PHIL	138	#																								
POLT	3338	#	130	82%																						
PSYC	4150	#	133	77%																						
RE	3415	#	343	69%																						
SOC	2115	#	94	65%																						
SURV	228	#																								
THEA	539	#	63	65%	34																					
WATR	128	#																								
ALL	41456	#####	69%	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	

	Prior to Spr 2015	Spr 2015 and After	TOTAL
Grades Given	31415	10041	#####
Retention Rate	75.5%	79.4%	#####

Distance Education 2009 to 2016

	Prior to Spr 2015	Spr 2015 and After	TOTAL
Grades Given	31415	10041	41456
Success Rate	57.6%	62.9%	58.9%

Face to Face 2009 to 2016

	Prior to Spr 2015	Spr 2015 and After	TOTAL
Grades Given	81651	23332	104983
Success Rate	67.4%	66.4%	67.2%

PRE

Snapshot	Section No	No of Stdnts	Success Rate
20093ET	20820	48	62.5%
20093ET	20847	22	72.7%
20093ET	20851	21	57.1%
20093ET	20854	40	50.0%
20093ET	21560	37	73.0%
20093ET	21561	38	76.3%
20093ET	21563	39	64.1%
20093ET	21721	35	65.7%
20093ET	21763	40	40.0%
20093ET	22399	26	61.5%
20101ET	27689	36	52.8%
20101ET	27691	38	15.8%
20101ET	28163	31	74.2%
20101ET	28164	20	70.0%
20101ET	28358	56	64.3%
20101ET	28359	28	71.4%
20101ET	28360	27	55.6%
20101ET	28361	41	61.0%
20101ET	29562	29	48.3%
20101ET	29647	31	54.8%
20101ET	29648	38	36.8%
20102ET	32542	44	63.6%
20102ET	32543	33	69.7%
20102ET	32545	32	84.4%
20102ET	33328	33	54.5%
20103ET	34212	26	34.6%
20103ET	34333	51	62.7%
20103ET	35553	41	22.0%
20103ET	35847	27	25.9%
20103ET	35951	19	57.9%
20103ET	35961	30	63.3%
20103ET	35964	34	82.4%
20103ET	36236	37	32.4%
20103ET	36239	34	44.1%
20103ET	36867	39	71.8%
20103ET	43482	33	9.1%
20111ET	38452	34	82.4%
20111ET	40017	37	35.1%
20111ET	40052	18	27.8%
20111ET	40114	34	26.5%
20111ET	40117	35	57.1%
20111ET	40123	30	66.7%
20111ET	40124	26	23.1%
20111ET	41027	18	66.7%
20111ET	41042	53	41.5%
20111ET	41043	26	69.2%
20111ET	41044	32	84.4%
20111ET	41045	36	66.7%
20111ET	41049	29	82.8%
20111ET	41930	25	60.0%

t-test p value **0.00746777**

Pre Avg **60.8%**

Post Avg. **69.2%**

POST

Snapshot	Section No	No of Stdnts	Success Rate
20150ET	94189	41	73.2%
20150ET	95007	27	100.0%
20150ET	95440	75	82.7%
20150ET	96125	17	82.4%
20151ET	12607	33	63.6%
20151ET	92808	40	57.5%
20151ET	92892	24	66.7%
20151ET	93314	33	75.8%
20151ET	93667	39	87.2%
20151ET	96156	32	78.1%
20151ET	96252	16	68.8%
20151ET	96281	30	93.3%
20151ET	96282	30	90.0%
20151ET	96284	22	86.4%
20151ET	96285	22	77.3%
20151ET	96286	24	75.0%
20152ET	10074	18	55.6%
20152ET	10082	19	78.9%
20152ET	10086	20	90.0%
20152ET	10226	13	69.2%
20152ET	12284	20	45.0%
20152ET	13358	17	41.2%
20152ET	17419	37	86.5%
20152ET	17686	26	76.9%
20152ET	99674	33	81.8%
20153ET	10263	42	52.4%
20153ET	10466	32	78.1%
20153ET	10956	41	68.3%
20153ET	10958	10	70.0%
20153ET	12591	40	50.0%
20153ET	13037	34	73.5%
20153ET	13067	26	26.9%
20153ET	13523	32	34.4%
20153ET	13643	29	65.5%
20153ET	14217	28	60.7%
20153ET	14439	29	86.2%
20153ET	14441	30	90.0%
20153ET	14443	36	72.2%
20153ET	14446	26	73.1%
20153ET	14932	21	47.6%
20153ET	15744	34	64.7%
20153ET	15746	29	51.7%
20153ET	15914	37	75.7%
20153ET	15961	41	58.5%
20153ET	15967	18	61.1%
20153ET	15968	41	61.0%
20153ET	17899	39	82.1%
20153ET	19721	30	33.3%
TOTAL AVERAGE			69.2%