Experience Demographic Factors and their Influence on Instructor Perspectives of Online versus Face-to-Face Education at a Jesuit Institution

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WEB APPENDIX

Table 1. Pearson Correlation Factors

OL Instructors	Level Taught	# Years Taught University	# Years Taught Total	Online Experience University	Online Experience Other	Self-reported Technology Level
Level Taught	1					
# Years Taught University	-.289	1				
# Years Taught Total	-.204	.751 *	1			
Online Experience	.066	-.298	-.038	1		
Online Experience Other	-.272	.295	.006	-.311 **	1	
Self-reported Tech.	.045	-.105	-.008	-.154	-.227	1

Level

FTF Instructors	Level Taught	# Years Taught University	# Years Taught Total	Online Experience	Online Experience other	Self-reported Technology Level
Level Taught	1.0000					
# Years Taught University	-.120	1				
# Years Taught Total	-.120	.947 *	1			
Online Experience	.060	-.145	-.152	1		
Online Experience Other	-.144	-.017	-.030	-.004	1	
Self-reported Tech. Level	.261	-.250	-.116	-.179	-.263	1
Overall	Level Taught	# Years Taught University	# Years Taught Total	Online Experience	Online Experience Other	Self-reported Technology Level
Level Taught	1.0000					
# Years Taught University	-.175	1				
# Years Taught Total	-.121	.875 *	1			
Online Experience	-.257**	-.148	-.101	1		
Online Experience Other	-.281**	.133	-.020	.016	1	

Self-reported Tech. Level	.028	-.063	.144	.311**	-.099	1

* Significant at .01 level (2-tailed)   ** Significant at .05 level (2-tailed)

Table 2. OL Instructors by Level Taught

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	9.366	8	.312	-.072	-.134
Motivation	10.375	8	.240	-.029	.009
Interact between students	14.642	8	.066 **	.126	.102
Interact instructor-student	16.245	8	.039 *	-.046	-.083
Discipline	5.524	8	.700	.083	.037
Cheat	9.090	8	.169	-.079	-.107
Self-directed	8.178	8	.416	.082	.065
Independence	6.719	8	.567	-.037	-.060
Schedule flexibility	9.988	8	.266	.195	.174
Time investment	3.198	8	.921	.015	-.013
Cost investment	4.345	6	.630	-.241	-.222
Preference opposite?	3.179	4	.528	.006	-.018
Happiness with environment	6.051	8	.641	-.012	-.028
Appropriateness	5.763	4	.218	-.127	-.069

* $p \leq .05$ ** $p \leq .10$

Table 3. FTF Instructors by Level Taught

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	1.56	4	.816	.059	.057
Motivation	6.029	3	.110	-.258	-.210
Interact between students	1.994	3	.574	-.149	-.181
Interact instructor-student	1.786	3	.618	-.027	-.013
Discipline	6.486	3	.090 **	.115	.161
Cheat	8.906	3	.031 *	-.221	-.158
Self-directed	1.454	4	.835	-.039	-.088
Independence	3.545	3	.315	-.134	-.154
Schedule flexibility	6.039	4	.196	-.204	-.176
Time investment	.568	3	.904	-.029	-.011
Cost investment	1.962	3	.580	.052	.036
Preference opposite?	.957	2	.620	-.150	-.153
Happiness with environment	.510	2	.775	-.029	-.006
Appropriateness	4.706	2	.095 **	-.132	-.170

* p ≤ .05   ** p ≤ .10

Table 4. OL Instructors by # of Years Taught at University

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	94.645	88	.295	-.015	-.013
Motivation	77.258	88	.787	.128	.092
Interact between students	94.369	88	.302	.094	.112
Interact instructor-student	83.048	88	.629	.108	.122
Discipline	76.540	88	.803	.045	.046
Cheat	45.706	66	.973	.040	-.004
Self-directed	89.104	88	.447	.099	.113
Independence	96.742	88	.246	-.115	-.093
Schedule flexibility	94.235	88	.305	-.012	.016
Time investment	91.195	88	.387	.053	.021
Cost investment	57.960	66	.749	.080	.078
Preference opposite?	44.520	44	.450	-.020	-.030
Happiness with environment	82.949	88	.632	.026	.028
Appropriateness	47.334	44	.338	-.142	-.165

* $p \leq .05$ ** $p \leq .10$

Table 5. FTF Instructors by # of Years Taught at University

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	79.249	84	.626	-.142	-.131
Motivation	62.874	60	.375	.276	.257
Interact between students	74.000	60	.106	.054	-.003
Interact instructor-student	50.741	40	.119	.052	.042
Discipline	50.920	60	.792	-.113	-.031
Cheat	63.20	60	.364	-.006	.054
Self-directed	82.337	84	.531	.106	.088
Independence	56.207	60	.615	.222	.188
Schedule flexibility	90.169	80	.205	-.117	-.132
Time investment	64.641	63	.419	-.075	.003
Cost investment	71.275	60	.151	-.279	-.222
Preference opposite?	51.831	42	.142	.045	.069
Happiness with environment	49.109	42	.210	.131	.119
Appropriateness	41.600	42	.488	-.191	-.162

* p ≤ .05   ** p≤.10

Table 6. OL Instructors by # of Years Taught at Overall

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	109.359	96	.166	.077	.100
Motivation	86.726	96	.740	.209	.209
Interact between students	103.108	96	.292	-.079	-.090
Interact instructor-student	120.033	96	.049 *	.084	.098
Discipline	110.822	96	.143	.045	-.012
Cheat	95.127	72	.035 *	.069	.031
Self-directed	107.560	96	.197	.205	.214
Independence	122.349	96	.036 *	.110	.161
Schedule flexibility	87.458	96	.721	.121	.144
Time investment	97.784	96	.430	.095	.017
Cost investment	81.990	72	.197	.114	.130
Preference opposite?	41.948	48	.718	-.023	.020
Happiness with environment	103.357	96	.286	.061	.086
Appropriateness	49.330	48	.420	-.116	-.121

* $p \le .05$ ** $p \le .10$

Table 7. FTF Instructors by # of Years Taught at Overall

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	97.711	88	.225	-.110	-.075
Motivation	50.444	66	.922	.262	.233
Interact between students	60.588	66	.665	.013	-.053
Interact instructor-student	53.552	44	.153	.046	.000
Discipline	62.315	66	.606	-.154	-.171
Cheat	69.793	66	.351	.014	-.008
Self-directed	80.926	88	.691	.081	.054
Independence	61.229	66	.643	.210	.195
Schedule flexibility	91.725	88	.372	-.128	-.125
Time investment	74.429	66	.223	-.177	-.171
Cost investment	62.729	66	.591	-.221	-.145
Preference opposite?	39.081	44	.682	.050	.051
Happiness with environment	49.635	44	.259	.122	.083
Appropriateness	48.197	44	.307	-.156	-.127

* p ≤ .05   ** p≤.10

Table 8: OL versus Took an OL Course

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	4.026	4	.403	-.184	-.213
Motivation	2.453	4	.653	-.019	-.003
Interact between students	3.676	4	.452	-.074	-.088
Interact instructor-student	3.778	4	.437	-.255	-.270
Discipline	12.316	4	.015 *	-.379	-.430
Cheat	.195	3	.978	-.041	-.025
Self-directed	8.266	4	.082 **	.001	-.012
Independence	6.051	4	.195	-.051	-.111
Schedule flexibility	1.756	4	.781	.041	.015
Time investment	10.982	4	.027 *	-.180	-.275
Cost investment	2.372	3	.499	-.138	-.136
Preference opposite?	5.726	2	.057 **	.072	.094
Happiness with environment	6.179	4	.186	.021	.000
Appropriateness	.643	2	.725	-.119	-.105

* p ≤ .05   ** p ≤ .10

Table 9. FTF versus Took an Online Course at University

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	2.388	4	.665	-.125	-.128
Motivation	7.110	3	.068 **	.181	.163
Interact between students	4.031	3	.258	.083	.036
Interact instructor-student	6.313	3	.097 **	.269	.197
Discipline	1.180	3	.758	.083	.070
Cheat	4.329	3	.228	.328	.321
Self-directed	2.234	4	.693	.088	.131
Independence	2.969	3	.398	.266	.262
Schedule flexibility	2.504	4	.644	.073	.082
Time investment	5.343	3	.148	.184	.188
Cost investment	1.128	3	.770	.146	.144
Preference opposite?	7.063	2	.029	.407	.372
Happiness with environment	.607	2	.738	.078	.057
Appropriateness	1.814	2	.404	.164	.179

* $p \leq .05$ ** $p \leq .10$

Table 10: OL versus Took OL Course Elsewhere

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	2.995	4	.565	.196	.176
Motivation	5.869	4	.209	.022	.005
Interact between students	6.118	4	.190	.199	.221
Interact instructor-student	5.344	4	.254	.098	.129
Discipline	6.459	4	.167	.303	.271
Cheat	3.791	3	.285	-.039	-.010
Self-directed	.234	4	.994	-.020	-.007
Independence	3.739	4	.443	.041	-.002
Schedule flexibility	5.015	4	.286	-.328	-.323
Time investment	7.519	4	.111	.215	.184
Cost investment	2.280	3	.516	.052	.088
Preference opposite?	1.408	2	.495	-.181	-.183
Happiness with environment	2.516	4	.642	-.013	-.023
Appropriateness	1.592	2	.451	-.134	-.166

Table 11. FTF versus Took OL Course Elsewhere

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	4.988	4	.289	.000	.012
Motivation	1.130	3	.770	-.145	-.150
Interact between students	3.280	3	.350	-.135	-.082
Interact instructor-student	2.486	3	.478	-.096	-.042
Discipline	2.587	3	.460	-.096	-.081
Cheat	.980	3	.806	-.080	-.072
Self-directed	.377	4	.984	-.059	-.036
Independence	1.816	3	.611	.189	.189
Schedule flexibility	.310	4	.989	.007	.014
Time investment	2.623	3	.453	.192	.187
Cost investment	2.190	3	.534	.212	.216
Preference opposite?	7.112	2	.029 *	.355	.288
Happiness with environment	1.378	2	.502	.024	-.014
Appropriateness	3.378	2	.185	.022	.057

* $p \le .05$ ** $p \le .10$

Table 12. OL Instructors by Self-reported Technology Level

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	9.018	8	.341	.023	.076
Motivation	7.038	8	.533	.083	.064
Interact between students	6.641	8	.576	.152	.161
Interact instructor-student	8.438	8	.392	.249	.253
Discipline	10.231	8	.249	.053	.094
Cheat	8.925	6	.178	.264	.310
Self-directed	15.303	8	.054 **	.342	.387
Independence	13.555	8	.094 **	.296	.348
Schedule flexibility	10.310	8	.244	.204	.273
Time investment	8.167	8	.417	.101	.185
Cost investment	7.211	6	.302	-.094	-.056
Preference opposite?	8.425	4	.077 **	.418	.409
Happiness with environment	13.914	8	.084 **	.357	.390
Appropriateness	4.842	4	.304	-.331	-.313

* p ≤ .05   ** p≤.10

Table 13. FTF Instructors by Self-reported Technology Level

Metric	Pearson Chi-Square Value	Df	Asymptotic Significance (2-sided)	Pearson's R	Spearman Correlation
Difficulty	13.599	12	.327	.119	.135
Motivation	10.205	9	.334	-.246	-.225
Interact between students	6.153	9	.725	-.283	-.237
Interact instructor-student	6.217	9	.718	-.039	-.026
Discipline	12.844	9	.170	.101	.127
Cheat	5.475	9	.791	.-.195	-.186
Self-directed	11.110	12	.520	-.081	-.152
Independence	18.513	9	.030 *	-.348	-.337
Schedule flexibility	16.045	12	.189	-.325	-.305
Time investment	14.566	9	.104	-.099	-.076
Cost investment	9.156	9	.423	.272	.242
Preference opposite?	3.351	6	.764	-.266	-.272
Happiness with environment	2.965	6	.813	-.159	-.121
Appropriateness	15.814	6	.015 *	-.280	-.273

* $p \leq .05$ ** $p \leq .10$

Online Perspectives - Instructor Survey

Q1.   What school do you teach in?

- School of Arts and Sciences (1)
- School of Education and Human Services (2)
- School of Business (3)

Q2.   How old are you?

- Less than 26 (1)
- 26-30 (2)
- 31-35 (3)
- 36-40 (4)
- 41-45 (5)
- 46-50 (6)
- 51-55 (7)
- 56-60 (8)
- 61-65 (9)
- 66-70 (10)
- 71 or older (11)

Q3.   Are you:

- Male (1)
- Female (2)

Q4.   What is your rank at the University?

o   Lecturer

o   Assistant Professor

o   Associate Professor

o   Professor

o   Other

Q5.   Do you teach undergraduate courses only, graduate courses only or both levels?

o   Undergraduate courses only (1)

o   Graduate courses only (2)

o   Both undergraduate and graduate courses (3)

Q6.   What is your highest education level?

o   Associates

o   Bachelors

o   Masters

o   Doctorate

o   Post-Doctorate

Q7.   Would you classify your technological abilities as:

o   Do not use technology in the classroom or teaching at all.

o   Beginner/Novice

o   Advanced Beginner (eg. Use some Desire2Learn features, Microsoft Office)

o   Intermediate (e.g. use many Desire2Learn features in classes, Microsoft Office, other computer
applications)

o   Superior (Extensive knowledge and use of various computer capabilities in the classroom)

Q8.   How many years have you taught at the University?

Q9.   How many years have you taught at the university level (any school)?

Q10.   Have you ever taken an online course at the University?

o   Yes (1)

o   No (2)

Q11.   Have you ever taken an online course at a school other than the University?

o   Yes (1)

o   No (2)

Q12.   Have you taught an online course at the University?

o   Yes (1)

o   No (2)

Section A: Participants with online teaching experience are directed to the following questions, while participants with no online teaching experience are direct to Section B.

With respect to teaching online courses at the University compared to face-to-face (traditional classrooms), please rate the following responses:

Q13.   How many online courses have you taught at the University?

Q14. Have you taught an online course at a school other than the University?

- o Yes (1)
- o No (2)

Q15. How many online courses have you taught at a school other than the University?

Q16. Prior to teaching an online course, did you take a course to prepare you for the online environment?

- o Yes (1)
- o No (2)

Q17. If yes, was the course offered by the University or the book publisher or other method?

- o University (1)
- o Book publisher (2)
- o Other (3)

Q18. I perceive online courses to be _____ in difficulty than face-to-face courses.

- o Significantly easier (1)
- o Easier (2)
- o The Same Difficulty (3)
- o Harder (4)
- o Significantly Harder (5)

Q19. I am _____ motivated in online courses than face-to-face courses.

- o Significantly less (1)

- Less (2)
- Equally (3)
- More (4)
- Significantly more (5)

Q20.   I _____ the interaction with students in the online environment compared to the face-to-face course environment.

- Significantly dislike (1)
- Dislike (2)
- Equate (3)
- Like (4)
- Significantly like (5)

Q21.   I find the discipline required in taking online courses to be _____ than in face-to-face courses.

- Significantly less (1)
- Less (2)
- The Same (3)
- More (4)
- Significantly more (5)

Q22.   I enjoy the schedule flexibility associated with the online learning environment _____ than the interaction in face-to-face courses.

- Significantly less (1)
- Less (2)
- The Same (3)
- More (4)

o   Significantly more (5)

Q23. I find online courses require _____ time investment in the course than face-to-face courses.

o   Significantly less (1)

o   Less (2)

o   The Same (3)

o   More (4)

o   Significantly more (5)

Q24. I find online courses total costs are _____ than face-to-face courses.

o   Significantly less (1)

o   Less (2)

o   The Same (3)

o   More (4)

o   Significantly More (5)

Q25. I perceive that it is ____ for students to cheat in the online environment than in face-to-face

courses.

o   Significantly easier (1)

o   Easier (2)

o   The Same (3)

o   Harder (4)

o   Significantly harder (5)

Q26. I enjoy the self-directed online learning environment _____ than the interaction in face-to-face courses.

- o Significantly less (1)
- o Less (2)
- o The Same (3)
- o More (4)
- o Significantly more (5)

Q27. I enjoy the independence associated with the online learning environment _____ than the interaction in face-to-face courses.

- o Significantly less (1)
- o Less (2)
- o The Same (3)
- o More (4)
- o Significantly more (5)

Q28. In the online environment, I feel these activities increase my students' understanding of the course material. (Check all that apply.)

- o Discussion boards (1)
- o In-class sessions (2)

o   Additional Reading (3)

o   Homework (4)

o   Videos (5)

o   Instructor lectures (6)

o   Instructor chat (7)

o   Other students (8)

o   Problem Scaffolding & Hints (9)

o   Textbook (10)

o   Instructor Posted Notes (11)

o   Surveys (12)

Q29.   In the online environment, I feel these activities decrease my students' understanding of the course

material. (Check all that apply.)

o   Discussion boards (1)

o   In-class sessions (2)

o   Reading (3)

o   Homework (4)

o   Videos (5)

o   Instructor lectures (6)

o   Instructor chat (7)

o   Other students (8)

o   Problem Scaffolding & Hints (9)

o   Textbook (10)

o   Instructor Posted Notes (11)

o   Surveys (12)

Q30.   Would you prefer to teach the class in a traditional face-to-face environment?

o   Yes (1)

o   Undecided (2)

o   No (3)

Q31.   I am _____ with the online course environment for learning.

o   Not very happy (1)

o   Not happy (2)

o   Okay (3)

o   Happy (4)

o   Very happy (5)

Q32.   Given this institution, do you think online courses are appropriate?

o   Yes (1)

o   Undecided (2)

o   No (3)

Q33.   Why did you choose to teach the course online?

Section B: Participants with no online teaching experience are directed to the following questions, while participants with online teaching experience are direct to Section A.

With respect to <u>teaching</u> face-to-face courses (traditional) at the University compared to teaching online, please rate the following responses:

Q34.   I perceive face-to-face courses to be _____ in difficulty than online courses.

- o   Significantly Easier (1)
- o   Easier (2)
- o   The Same Difficulty (3)
- o   Harder (4)
- o   Significantly Harder (5)

Q35.   I would be _____ motivated in face-to-face courses than online courses.

- o   Significantly less (1)
- o   Less (2)
- o   Equally (3)
- o   More (4)
- o   Significantly more (5)

Q36.   I perceive the interaction with other students in the face-to-face environment to be _____ compared to the online course environment.

- o   Significantly worse (1)
- o   Worse (2)
- o   Equal (3)
- o   Better (4)
- o   Significantly better (5)

Q37. I perceive the interaction with the instructor in the face-to-face environment to be _____ compared

to the online course environment.

o   Significantly worse (1)

o   Worse (2)

o   Equal (3)

o   Better (4)

o   Significantly better (5)

Q38   I perceive the discipline required in taking face-to-face courses to be _____ than in online courses.

o   Significantly less (1)

o   Less (2)

o   The Same (3)

o   More (4)

o   Significantly more (5)

Q39. I perceive that it would be _____ to cheat in the face-to-face environment than in online courses.

o   Significantly easier (1)

o   Easier (2)

o   The Same (3)

o   Harder (4)

o   Significantly harder (5)

Q40   I believe that I would enjoy the self-directed face-to-face learning environment _____ than the

interaction in online courses.

o   Significantly less (1)

o   Less (2)

o   The Same (3)

o   More (4)

o   Significantly more (5)

Q41.   I believe that I would enjoy the independence associated with the face-to-face environment _____

than the interaction in online courses.

o   Significantly less (1)

o   Less (2)

o   The Same (3)

o   More (4)

o   Significantly more (5)

Q42.   I believe that I would enjoy the schedule flexibility associated with the face-to-face learning

environment _____ than in online courses.

o   Significantly less (1)

o   Less (2)

o   The Same (3)

o   More (4)

o   Significantly more (5)

Q43. I believe that face-to-face courses require _____ time investment in the course than online courses.

- o Significantly less (1)
- o Less (2)
- o The Same (3)
- o More (4)
- o Significantly more (5)

Q44. I believe face-to-face courses total costs are _____ than online courses.

- o Significantly less (1)
- o Less (2)
- o The Same (3)
- o More (4)
- o Significantly more (5)

Q45. In the face-to-face environment, I feel these activities increase my students' understanding of the course material. (Check all that apply.)

- o Discussion boards (1)
- o In-class sessions (2)
- o Additional Reading (3)
- o Homework (4)
- o Videos (5)
- o Instructor lectures (6)
- o Instructor chat (7)
- o Other students (8)
- o Problem Scaffolding & Hints (9)
- o Textbook (10)

- o Instructor Posted Notes (11)

- o Surveys (12)

Q46   In the face-to-face environment, I feel these activities decrease the students' understanding of the

course material. (Check all that apply.)

- o Discussion boards (1)

- o In-class sessions (2)

- o Additional Reading (3)

- o Homework (4)

- o Videos (5)

- o Instructor lectures (6)

- o Instructor chat (7)

- o Other students (8)

- o Problem Scaffolding & Hints (9)

- o Textbook (10)

- o Instructor Posted Notes (11)

- o Surveys (12)

Q47   Would you prefer to teach the class in an online environment?

- o Yes (1)

- o Undecided (2)

- o No (3)

Q48.   If not, why not?

Q49. I am _____ with the face-to-face environment for learning.

- o Not very happy (1)

- o Not happy (2)

- o Okay (3)

- o Happy (4)

- o Very happy (5)

Q50. Given this institution, do you think online courses are appropriate?

- o Yes (1)

- o Undecided (2)

- o No (3)