

A Study of Changes in Online Graduate Business Student Perceptions over a  
Course

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**WEB APPENDIX**

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## WEB Appendix

Table 1. Student Pre- and Post-Course Perceptions

Perception	Pre-Course			TTEST Section Comparison	Post-Course		TTest Pre- vs. Post-
	TTEST Section Comparis on	Average	Standard Deviation		Average	Standard Deviation	
Motivation	.23	2.90	.41	.22	2.72	.70	.14
Discipline	.69	3.79	.62	.08 **	3.75	.80	.33
Self-directed	.29	2.93	1.11	.60	2.83	1.17	.18
Independence	.27	3.45	.95	.33	3.55	1.12	.31
Time Investment	.46	3.59	.78	.77	3.79	.82	.14
Cost Investment	.04 *	2.90	.67	.77	2.79	.82	.28
Student Interaction	.62	2.84	.69	.96	2.93	.70	.39
Instructor Interaction	.58	2.53	.61	.86	2.72	.84	.41
Difficulty	.87	3.21	.68	.74	3.48	.74	.01 *
Cheating	.17	2.72	.65	.72	2.89	.42	.04 *
Schedule Flexibility	.93	4.18	.61	.50	4.14	.92	.33
Preference	.20	1.97	.73	.71	1.76	.83	.01 *
Happiness	.39	3.41	.57	.40	3.41	.98	.50
Appropriateness	.19	1.38	.56	.74	1.41	.68	.39

\*  $p \leq .05$     \*\*  $p \leq .1$

Table 2. Number of Responses Pre- and Post- Most Critical Activity to Increase/Decrease Course Material Understanding

Activity	Increase Understanding		Decrease Understand	
	Pre-Course	Post-Course	Pre-Course	Post-Course
Discussion Boards/ Study Groups	1	7	9	1
In-class sessions	1	2	3	
Additional Readings	1	3	3	3
Homework/Assignments	10	10		
Videos/Executive Briefings	4	2		2
Instructor Office Hours			2	
Instructor Chat/ Email				
Other Students		1		2
Suggested Problems	2	3	1	1
None.			1	20

Table 3. T-test Comparison for Perception Differences: Transition

Perception	Novice vs. 'Experienced'		Novice/1 vs. 2 + Courses		Novice,1,2 vs. 3+ Courses		Novice, 1, 2, 3 vs. 4+ Courses	
	Pre-course	Post-course	Pre-course	Post-course	Pre-course	Post-course	Pre-course	Post-course
Motivation	.09 **	.11	.09 **	.25	.05 *	.03 *	.31	.25
Discipline	.09 **	.17	.03 *	.10	.01 *	.23	.13	.39
Self-directed	.24	.12	.14	.46	.47	.41	.28	.48
Independence	.42	.16	.41	.28	.43	.13	.30	.40
Time Investment	.13	.37	.05 *	.05 *	.01 *	.28	.17	.26
Cost Investment	.14	.42	.29	.26	.16	.11	.39	.24
Student Interaction	.17	.04 *	.05 *	.04 *	.15	.25	.44	.03 *
Instructor Interaction	.34	.11	.04 *	.29	.13	.10 **	.48	.11
Difficulty	.41	.27	.48	.33	.06 **	.06 **	.49	.40
Cheating	.27	.09 **	.14	.09 **	.44	.48	.31	.09 **
Schedule Flexibility	.23	.19	.14	.11	.16	.02 *	.39	.43
Preference	.44	.24	.12	.07 **	.38	.39	.47	.46
Happiness	.34	.19	.27	.48	.46	.14	.48	.37
Appropriateness	.28	.39	.28	.47	.28	.26	.19	.16

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

Table 4. Correlations between Perception and Average Number of Hours Invested in Course

Perception	Number of OL Courses vs. Perception		Average Weekly Hours Invested in Course vs. Perception	
	Pre-course	Post-course	Pre-course	Post-course
Motivation	-.15	.35	.1	-.35
Discipline	.41	.12	.01	-.27
Self-directed	-.13	.07	-.39	-.25
Independence	-.02	.09	-.58	-.46
Time Investment	.43	.22	-.21	.26
Cost Investment	.05	-.24	.02	.58
Student Interaction	-.1	-.33	-.16	-.32
Instructor Interaction	-.18	.29	.35	-.12
Difficulty	.13	.12	-.22	-.22
Cheating	-.18	-.01	-.2	-.20
Schedule Flexibility	.17	.23	-.1	-.1
Preference	-.02	-.07	-.23	-.06
Happiness	-.03	.17	-.53	-.3
Appropriateness	-.09	-.11	.32	.09

### Appendix A Student Perceptions Survey

This is a core area and concentration course. How much of the MBA program have you completed to date?
Are you currently working a full or part-time job, and if so, where and what is your position?
Some students did their undergraduate degrees here at the university or took a foundation level course with me. Did you take a course with me in the past? Yes (1) No (0)
How many OL courses have you taken before (not including the university)?
How many OL courses have you taken before at the university?
Prior to taking an OL course, did you take a course to prepare you for the OL environment? I didn't take a preparatory course. (1) I participated in the university's OL training. (2) I participated in a book publisher's OL training. (3) I used alternative tools to prepare to learn OL. (4)

### Pre-Course and Post-Course Perception Questions

<b>OL Format:</b> This was the first time this course will be offered OL (instead of in the FTF classroom). With this in mind, I would like to understand your expectations in the OL environment more. Please complete the following statements:
I am _____ <b>motivated</b> in OL courses than FTF courses. (1) Significantly Less (2) Less (3) Equally (4) More (5) Significantly More
I find the <b>discipline</b> required in taking OL courses to be _____ than in FTF courses. (1) Significantly Less (2) Less (3) Equally (4) More (5) Significantly More
I enjoy the <b>self-directed</b> OL learning environment _____ than the interaction in FTF courses. (1) Significantly Less (2) Less (3) Equally (4) More (5) Significantly More
I enjoy the <b>independence</b> associated with the OL learning environment _____ than the interaction in FTF courses. (1) Significantly Less (2) Less (3) Equally (4) More (5) Significantly More
I find OL courses require _____ <b>time investment</b> in the course than FTF courses. (1) Significantly Less (2) Less (3) Equally (4) More (5) Significantly More
I find OL courses <b>total costs</b> are _____ than FTF courses. (1) Significantly Less (2) Less (3) Equally (4) More (5) Significantly More
I _____ the <b>interaction with other students</b> in the OL environment compared to the FTF course environment. (1) Significantly Dislike (2) Dislike (3) Equate (4) Like (5) Significantly Like
I _____ the <b>interaction with the instructor</b> in the OL environment compared to the FTF course environment. (1) Significantly Dislike (2) Dislike (3) Equate (4) Like (5) Significantly Like
I perceive OL courses to be _____ in <b>difficulty</b> than FTF courses. (1) Significantly Easier (2) Easier (3) The Same Difficulty (4) Harder (5) Significantly Harder
I find its' _____ to <b>cheat</b> in the OL environment than in FTF courses. (1) Significantly Easier (2) Easier (3) The Same (4) Harder (5) Significantly Harder

<p>I enjoy the <b>schedule flexibility</b> associated with the OL learning environment ____ than the interaction in FTF courses.</p> <p>(1) Significantly Less (2) Less (3) Equally (4) More (5) Significantly More</p>
<p>In the OL environment, I feel the most critical activity that <u>increases</u> my understanding of the course material is:</p> <p>(1) Discussion boards/Study Groups  (2) In-class sessions  (3) Additional Readings  (4) Homework /Assignments  (5) Videos / Executive Briefings  (6) Instructor office hours  (7) Instructor chat / email  (8) Other students  (9) Problem Scaffolding &amp; Hints  (10) None of the activities helped at all.</p>
<p>In the OL environment, I feel the most critical activity that <u>decreases</u> my understanding of the course material is:</p> <p>(1) Discussion boards/Study Groups  (2) In-class sessions  (3) Additional Readings  (4) Homework /Assignments  (5) Videos / Executive Briefings  (6) Instructor office hours  (7) Instructor chat / email  (8) Other students  (9) Problem Scaffolding &amp; Hints  (10) None. All activities were beneficial to learning.</p>
<p>Would you prefer to take the class in a traditional FTF environment?</p> <p>Yes (1) Undecided(2) No (3)</p>
<p>I am ____ with the OL course environment for learning.</p> <p>(1) Not very happy (2) Not happy (3) Okay (4) Happy (5) Very happy</p>
<p>Given this institution, do you think OL courses are appropriate?</p> <p>Yes (1) Undecided(2) No (3)</p>
<p>The course is typically offered in a FTF environment. Why did you choose to take the course OL?</p>

**Additional Post-Survey Questions:**

<p>In my opening comments about the course, I indicated that weeks 2 and 3 would be very intense; however, the other weeks would be more manageable. In general, how many hours per week (excluding weeks 2 and 3) did you spend on course material?</p>
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