Instructor Perspectives of Online versus Face-to-Face Education at a Jesuit

Institution: Program Factors

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WEB APPENDIX

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Table 1. Instructor Perceptions Program Factors: Online versus Face-to-Face

Factor	t-test	Instructors with Online		FTF Instructors	
		Average	Std. Deviation	Average	Std. Deviation
Difficulty	0.06	3.44	1.00	3.00	1.05
Interact between students	0.00	2.68	1.04	4.18	1.02
Interact instructor-student	0.00	2.85	1.13	4.33	.84
Cheating	0.00	2.41	.84	3.85	.80

$p \leq .05$

Table 2. Online and FTF Instructors Use Of Activities

“In the _____ environment, I feel these activities _____ my students' understanding of the course material.”

Activity	Percentage of Instructors			
	Online Instructors		FTF Instructors	
	Increase	Decrease	Increase	Decrease
Additional Readings (not including textbook)	73.17	4.88	60.98	4.88
Assignments/ Homework	92.68	2.44	82.93	0.00
Course Surveys	19.51	2.44	4.88	19.51
Discussion boards	82.93	9.76	26.83	9.76
In-class sessions (live sessions that are not lectures)	36.59	9.76	75.61	0.00
Instructor chat	31.71	9.76	21.95	2.44
Instructor (live or taped) lectures	39.02	14.63	41.46	9.76
Instructor Office Hours	24.39	2.44	68.29	0.00
Instructor Posted Notes	48.78	2.44	29.27	12.20
Laboratory / experiential activities	14.63	2.44	56.10	0.00
Other students	41.46	7.32	68.29	7.32
Problem Hints & Scaffolding Examples	26.83	4.88	17.07	4.88
Textbook	60.98	4.88	48.78	2.44
Videos of Relevant Course Material (not instructor-lead)	73.17	2.44	48.78	2.44
Other	9.76	7.32	9.76	7.32

Table 3. Comparison of Instructors with Prior Online Training versus Instructors without Prior Online Training

Factor	t-test	Average for Online Instructors	
		With Training	Without Training
Difficulty	.42	3.36	3.62
Interact between students	.76	2.64	2.77
Interact instructor-student	.98	2.86	2.85
Cheating	.01	2.18	2.92

* $p \leq .05$

Table 4. Comparison of Instructors with Prior Online Training versus Instructors without Prior Online Training Selection of Activities

“In the _____ environment, I feel these activities _____ my students' understanding of the course material.”

Activity	Percentage of Responses			
	Training		No Training	
	Increase	Decrease	Increase	Decrease
Additional Readings (not including textbook)	78.57	0.00	61.54	15.38
Assignments/ Homework	96.43	0.00	84.62	7.69
Course Surveys	21.43	0.00	15.38	7.69
Discussion boards	85.71	7.14	76.92	15.38
In-class sessions (live sessions that are not lectures)	35.71	7.14	38.46	15.38
Instructor chat	25.00	10.71	46.15	7.69
Instructor (live or taped) lectures	39.29	10.71	38.46	23.08
Instructor Office Hours	25.00	0.00	23.08	7.69
Instructor Posted Notes	42.86	0.00	61.54	7.69
Laboratory / experiential activities	14.29	3.57	15.38	0.00
Other students	42.86	7.14	38.46	7.69
Problem Hints & Scaffolding Examples	25.00	7.14	30.77	0.00
Textbook	71.43	0.00	38.46	15.38
Videos of Relevant Course Material (not instructor-lead)	78.57	0.00	61.54	7.69
Other	10.71	3.57	7.67	15.38

Online Perspectives - Instructor Survey Spring 2017

Please note: The coding is the number in parentheses following the response and will not be viewed by the participant.

- 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?
- ☐ Lecturer/Adjunct Professor
 - ☐ Assistant Professor
 - ☐ Associate Professor
 - ☐ Professor
 - ☐ Other
- Q5. What is your highest education level?
- ☐ Associates
 - ☐ Bachelors
 - ☐ Masters
 - ☐ Doctorate
 - ☐ Post-Doctorate
- Q6. Do you teach undergraduate courses only, graduate courses only or both levels?
- ☐ Undergraduate courses only (1)
 - ☐ Graduate courses only (2)
 - ☐ Both undergraduate and graduate courses (3)

- Q7. Would you classify your technological integration in the classroom as:
- Do not use technology in the classroom as part of teaching or to communicate with students.
 - Beginner/Novice (e.g. use Microsoft Office Powerpoint (or similar projection software) as part of teaching and email, but no other software to conduct class or communicate with students).
 - Advanced Beginner (e.g. use 'some' Powerpoint (or similar projection software), some Desire2Learn features, Microsoft office or similar to conduct class and communicate with students).
 - Intermediate (e.g. Use 'many' Desire2Learn features in class, Microsoft Office, and other computer applications to conduct class and communicate with students).
 - Extensive (e.g. extensive knowledge and use of various computer software programs to conduct class and communicate with students).
- 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?
- Yes (1)
 - No (2)
- Q11. Have you ever taken an online course at a school other than the University?
- Yes (1)
 - No (2)
- Q12. Have you taught an online course at the University?
- Yes (1)
 - 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.

- 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?
- Yes (1)
 - 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?
- Yes (1)
 - No (2)

- Q17. If yes, was the course offered by the University or the book publisher or other method?
- ☐ University (1)
 - ☐ Book publisher (2)
 - ☐ Other (3)

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

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

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

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

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

- Q20. I perceive the interaction between students in the online environment to be _____ compared to the face-to-face environment.

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

- Q21. I perceive the interaction between the instructor and students in the online environment to be ____ compared to the face-to-face environment.

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

- Q22. 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)

- Q23. 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)
 - ☐ Significantly more (5)
- Q24. I find online courses require _____ time investment in the course than face-to-face courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)
- Q25. I find online courses total costs are _____ than face-to-face courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly More (5)
- Q26. I perceive that it is _____ for students to cheat in the online environment than in face-to-face courses.
- ☐ Significantly easier (1)
 - ☐ Easier (2)
 - ☐ The Same (3)
 - ☐ Harder (4)
 - ☐ Significantly harder (5)
- Q27. I enjoy the self-directed online learning environment _____ than the interaction in face-to-face courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)
- Q28. I enjoy the independence associated with the online learning environment _____ than the interaction in face-to-face courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)

Q29. In the online environment, I feel these activities increase my students' understanding of the course material. (Check all that apply.)

- ☐ Additional Readings (not including textbook) (1)
- ☐ Assignments/ Homework (2)
- ☐ Course Surveys (3)
- ☐ Discussion boards (4)
- ☐ In-class sessions (live sessions that are not lectures) (5)
- ☐ Instructor chat (6)
- ☐ Instructor (live or taped) lectures (7)
- ☐ Instructor Office Hours (8)
- ☐ Instructor Posted Notes (9)
- ☐ Laboratory / experiential activities (10)
- ☐ Other students (11)
- ☐ Problem Hints & Scaffolding Examples (12)
- ☐ Textbook (13)
- ☐ Videos of Relevant Course Material (not instructor-lead (14)
- ☐ Other (15)

Q30. In the online environment, I feel these activities decrease my students' understanding of the course material. (Check all that apply.)

- ☐ Additional Readings (not including textbook) (1)
- ☐ Assignments/ Homework (2)
- ☐ Course Surveys (3)
- ☐ Discussion boards (4)
- ☐ In-class sessions (live sessions that are not lectures) (5)
- ☐ Instructor chat (6)
- ☐ Instructor (live or taped) lectures (7)
- ☐ Instructor Office Hours (8)
- ☐ Instructor Posted Notes (9)
- ☐ Laboratory / experiential activities (10)
- ☐ Other students (11)
- ☐ Problem Hints & Scaffolding Examples (12)
- ☐ Textbook (13)
- ☐ Videos of Relevant Course Material (not instructor-lead (14)
- ☐ Other (15)

Q31. Would you prefer to teach the class in a traditional face-to-face environment?

- ☐ Yes (1)
- ☐ Undecided (2)
- ☐ No (3)

Q32. I am ____ with the online course environment for learning.

- ☐ Not very happy (1)
- ☐ Not happy (2)
- ☐ Okay (3)
- ☐ Happy (4)
- ☐ Very happy (5)

Q33. Given this institution, do you think online courses are appropriate?

- ☐ Yes (1)
- ☐ Undecided (2)
- ☐ No (3)

Q34. 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 teaching face-to-face courses (traditional) at the University compared to teaching online, please rate the following responses:

Q35. I perceive face-to-face courses to be _____ in difficulty than online courses.

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

Q36. I would be ____ motivated in face-to-face courses than online courses.

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

Q37. I perceive the interaction between students in the face-to-face environment to be ____ compared to the online environment.

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

- Q38. I perceive the interaction with the instructor in the face-to-face environment to be _____ compared to the online course environment.
- ☐ Significantly worse (1)
 - ☐ Worse (2)
 - ☐ Equal (3)
 - ☐ Better (4)
 - ☐ Significantly better (5)
- Q39. I perceive the discipline required in taking face-to-face courses to be _____ than in online courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)
- Q40. I perceive that it would be _____ to cheat in the face-to-face environment than in online courses.
- ☐ Significantly easier (1)
 - ☐ Easier (2)
 - ☐ The Same (3)
 - ☐ Harder (4)
 - ☐ Significantly harder (5)
- Q41. I believe that I would enjoy the self-directed face-to-face learning environment _____ than the interaction in online courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)
- Q42. I believe that I would enjoy the independence associated with the face-to-face environment _____ than the interaction in online courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)

- Q43. I believe that I would enjoy the schedule flexibility associated with the face-to-face learning environment _____ than in online courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)
- Q44. I believe that face-to-face courses require _____ time investment in the course than online courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)
- Q45. I believe face-to-face courses total costs are _____ than online courses.
- ☐ Significantly less (1)
 - ☐ Less (2)
 - ☐ The Same (3)
 - ☐ More (4)
 - ☐ Significantly more (5)
- Q46. In the face-to-face environment, I feel these activities increase my students' understanding of the course material. (Check all that apply.)
- ☐ Additional Readings (not including textbook) (1)
 - ☐ Assignments/ Homework (2)
 - ☐ Course Surveys (3)
 - ☐ Discussion boards (4)
 - ☐ In-class sessions (live sessions that are not lectures) (5)
 - ☐ Instructor chat (6)
 - ☐ Instructor (live or taped) lectures (7)
 - ☐ Instructor Office Hours (8)
 - ☐ Instructor Posted Notes (9)
 - ☐ Laboratory / experiential activities (10)
 - ☐ Other students (11)
 - ☐ Problem Hints & Scaffolding Examples (12)
 - ☐ Textbook (13)
 - ☐ Videos of Relevant Course Material (not instructor-lead) (14)
 - ☐ Other (15)

- Q47 In the face-to-face environment, I feel these activities decrease the students' understanding of the course material. (Check all that apply.)
- ☐ Additional Readings (not including textbook) (1)
 - ☐ Assignments/ Homework (2)
 - ☐ Course Surveys (3)
 - ☐ Discussion boards (4)
 - ☐ In-class sessions (live sessions that are not lectures) (5)
 - ☐ Instructor chat (6)
 - ☐ Instructor (live or taped) lectures (7)
 - ☐ Instructor Office Hours (8)
 - ☐ Instructor Posted Notes (9)
 - ☐ Laboratory / experiential activities (10)
 - ☐ Other students (11)
 - ☐ Problem Hints & Scaffolding Examples (12)
 - ☐ Textbook (13)
 - ☐ Videos of Relevant Course Material (not instructor-lead (14)
 - ☐ Other (15)
- Q48 Would you prefer to teach the class in an online environment?
- ☐ Yes (1)
 - ☐ Undecided (2)
 - ☐ No (3)
- Q49. If not, why not?
- Q50. I am _____ with the face-to-face environment for learning.
- ☐ Not very happy (1)
 - ☐ Not happy (2)
 - ☐ Okay (3)
 - ☐ Happy (4)
 - ☐ Very happy (5)
- Q51. Given this institution, do you think online courses are appropriate?
- ☐ Yes (1)
 - ☐ Undecided (2)
 - ☐ No (3)

Appendix B

Online and Face-to-Face Other Activities

Online Instruction

Activities that increase Student's Understanding

web conferences with invited speakers

Skype Interviews

Constant writing then responses to all assignments

inquiry-based or case study - based learning as opposed to reading text

Activities that decrease Student's Understanding

All of the activities listed seem to me to help students.

It's not that much about the activities but the lack of students' engagement on the activities

online text

Face-to-Face Instructors

Activities that increase Student's Understanding

Classroom discussion

Getting to know the students personally and interacting with them on a human level

hands on laboratory exercises - working along with instructor

100 other more important things could be listed here: engagement in class discussion amongst the students, the perception of body language and other communication cues, the importance of eye contact and sustained listening, the skill at leaving technology aside and focus on people, the addition of debate in the classroom, the fact that students can "drop by" professor's offices on campus... the list goes on.

Activities that decrease Student's Understanding

Depends on the activities and the content. So, none apply.

None

physical barriers, accessibility. classrooms are not optimized for individual needs