iPad Pilot Preliminary Results, Fall 2015

January 29, 2015

The iPad Pilot is part of the 2015-16 Basic Skills Initiative

Background

Fall 2015, Basic Skills Initiative provided iPads to basic skills instructors

Instructors were asked to incorporate into their curriculum technology-enhanced pedagogy

*pilot continuing winter 2016

iPad Pilot, Fall 2015

Courses
- ESL 273
- EWRT 200
- LART 211
- MATH 212

4 test groups (iPad)

5 control groups (no iPads)

Pre & Post Surveys
Research Questions

How did the iPad…

- **affect students'** engagement with course?

- **affect faculty's** engagement, pedagogy and curriculum development?

- affect **student course success?**

Survey Response

Pre-Survey

    test group = 85

    control group = 68

    faculty = 4

Post-Survey

    test group = 83

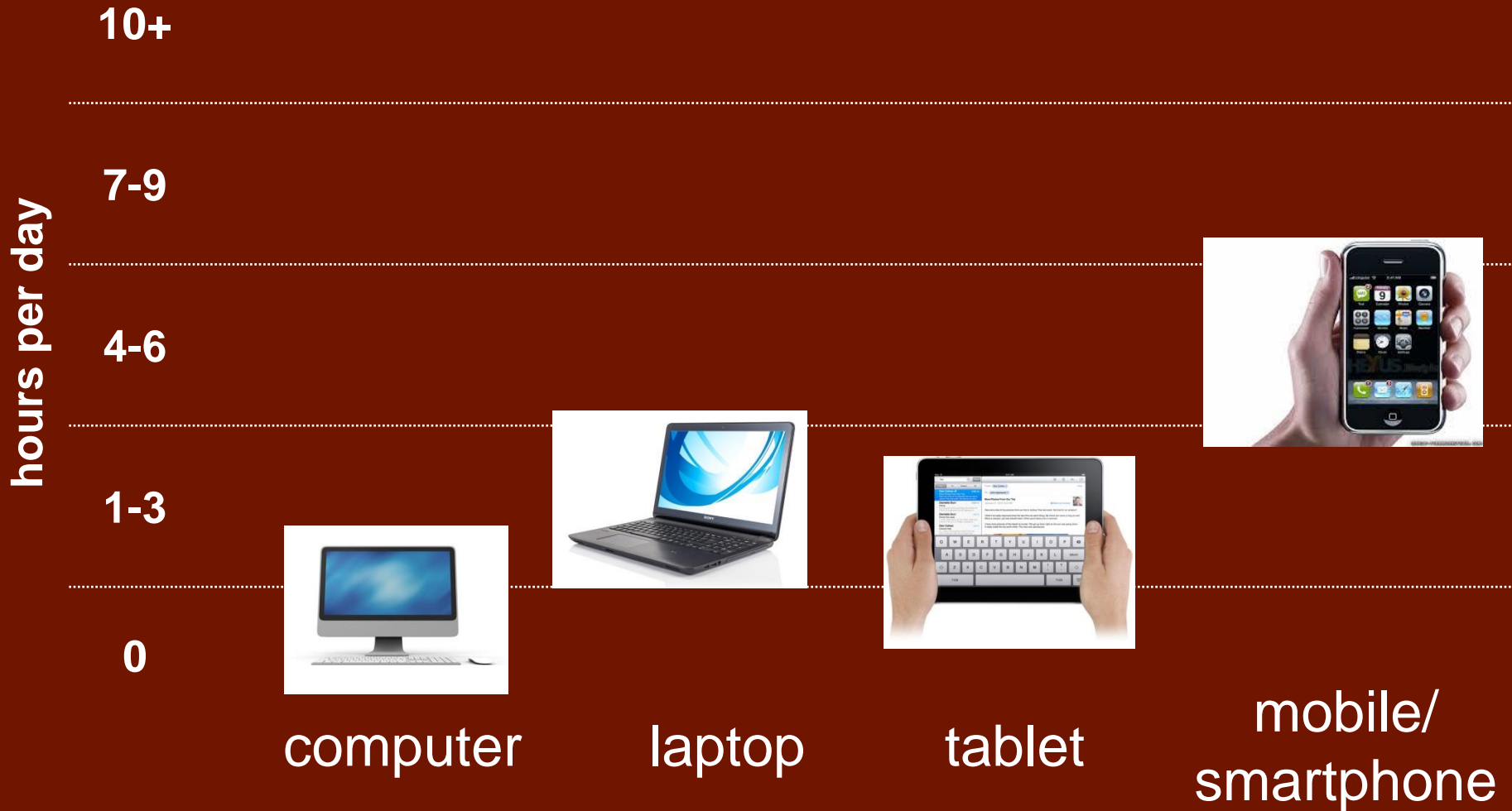   control group = 33

    faculty = 3

Students' Tech Experience
(baseline)

Test and Control Groups

Access to Tech
Test and Control Groups

Location Use Tech
Test and Control

public place

work

school

home

Reflects respondents who reported they use the device(s)

Tech Tools Previously Used in Class
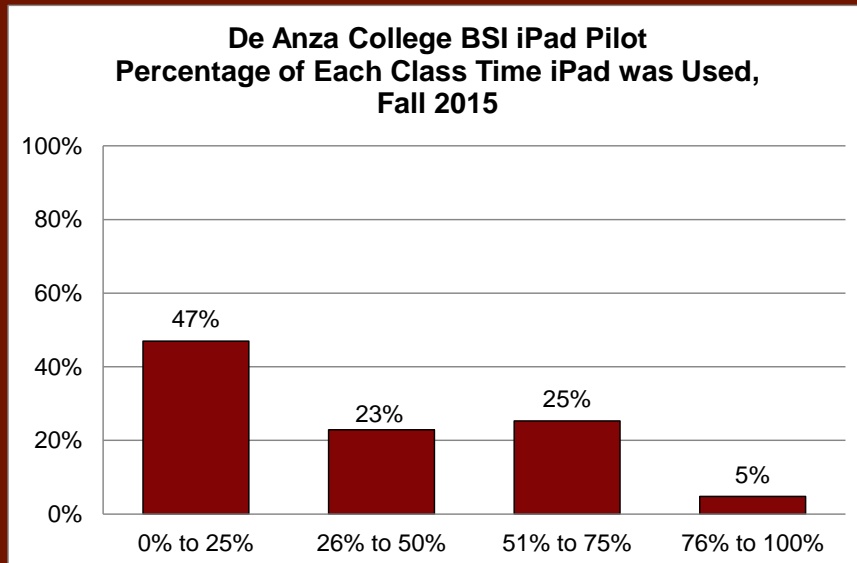## Test and Control Groups

Tech tools is defined as any digital apps or digital devices (computer, laptop, tablet and mobile/smartphone)
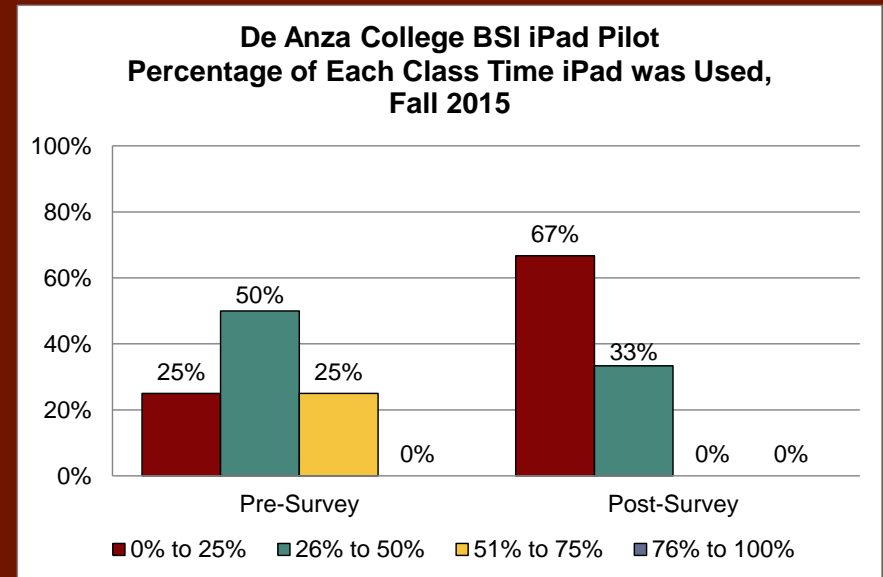
iPad Pilot

iPad Usage
Percent of Class Time

students' response
actively used 0%-25% of each class meeting

faculty's response
actively used 0%-25% of each class meeting

De Anza College BSI iPad Pilot
Percentage of Each Class Time iPad was Used,
Fall 2015

0% to 25%: 47%	26% to 50%: 23%	51% to 75%: 25%	76% to 100%: 5%

De Anza College BSI iPad Pilot
Percentage of Each Class Time iPad was Used,
Fall 2015

Pre-Survey: 0% to 25%: 25%; 26% to 50%: 50%; 51% to 75%: 25%; 76% to 100%: 0%
Post-Survey: 0% to 25%: 67%; 26% to 50%: 33%; 51% to 75%: 0%; 76% to 100%: 0%

Legend: 0% to 25%, 26% to 50%, 51% to 75%, 76% to 100%

Guidelines provided in survey:
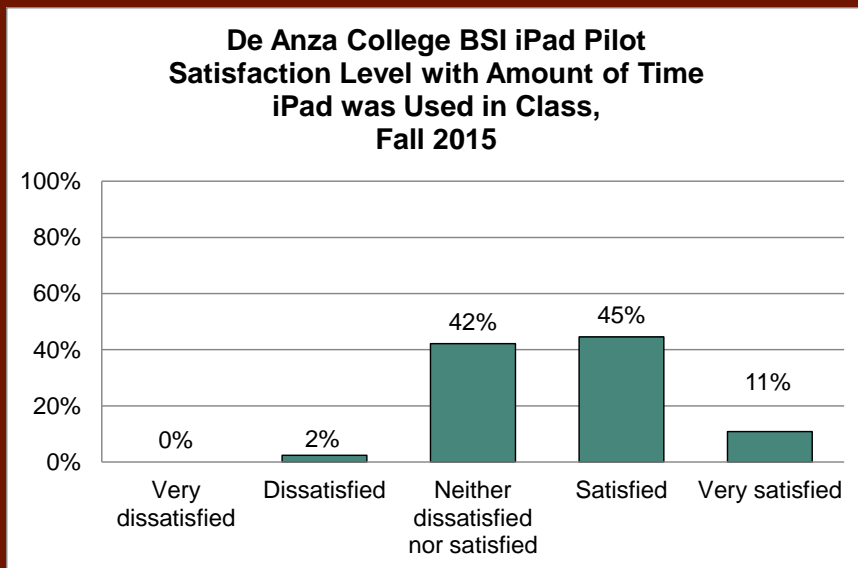0% to 25% = up to 15 min. for a 1-hour class; 30 min. for a 2-hour class; 60 min. for a 4-hour class
26% to 50% = up to 30 min. for a 1-hour class; 60 min. for a 2-hour class; 120 min. for a 4-hour class
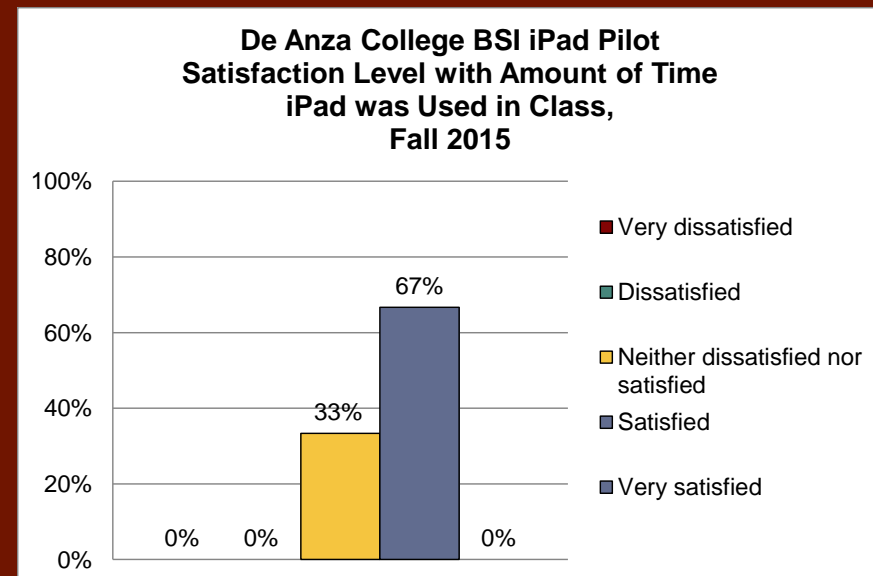51% to 75% = up to 45 min. for a 1-hour class; 90 min. for a 2-hour class; 180 min. for a 4-hour class
76% to 100% = up to 60 min. for a 1-hour class; 120 min. for a 2-hour class; 240 min. for a 4-hour class

Amount of Time iPad was Used
Satisfaction Level

students' response
56% were satisfied or very satisfied

faculty's response
67% were satisfied

De Anza College BSI iPad Pilot Satisfaction Level with Amount of Time iPad was Used in Class, Fall 2015

Category	Percentage
Very dissatisfied	0%
Dissatisfied	2%
Neither dissatisfied nor satisfied	42%
Satisfied	45%
Very satisfied	11%

De Anza College BSI iPad Pilot Satisfaction Level with Amount of Time iPad was Used in Class, Fall 2015

Category	Percentage
Very dissatisfied	0%
Dissatisfied	0%
Neither dissatisfied nor satisfied	33%
Satisfied	67%
Very satisfied	0%

Frequency of Apps Used*
Student's Feedback

students used Pages app often

De Anza College BSI iPad Pilot
Frequency Apps Used on a Weekly Basis,
Fall 2015

Legend: ■ iMovie App   ■ Keynote App   ■ Microsoft PPT App   ■ Pages App   ■ Remind App

Not at all | Very little:
- iMovie App: 68%
- Keynote App: 64%
- Microsoft PPT App: 77%
- Pages App: 31%
- Remind App: 82%

Somewhat:
- iMovie App: 13%
- Keynote App: 22%
- Microsoft PPT App: 17%
- Pages App: 25%
- Remind App: 12%

Quite a bit | A great deal:
- iMovie App: 19%
- Keynote App: 14%
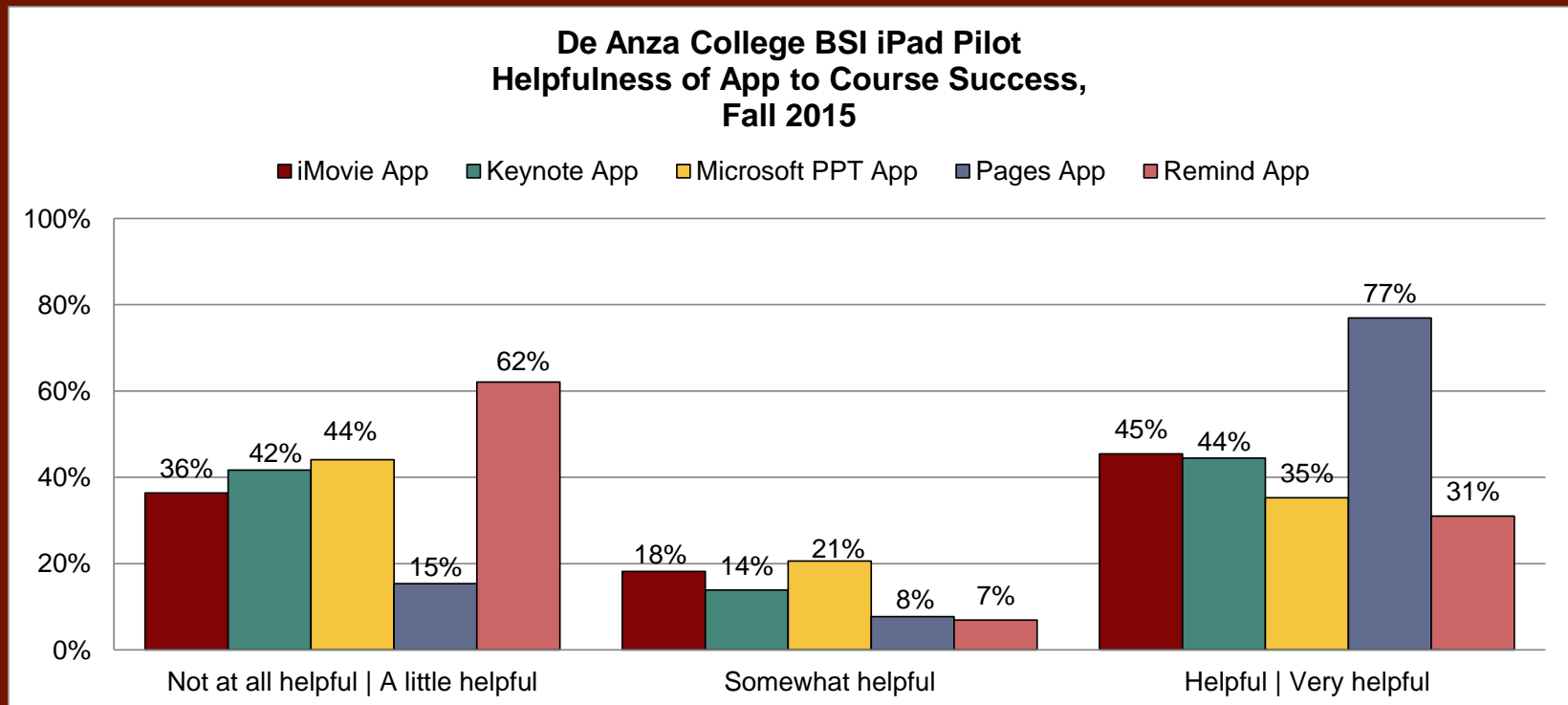- Microsoft PPT App: 6%
- Pages App: 44%
- Remind App: 6%

*Between 6 to 13 apps were uploaded to students' iPads. The 5 apps shown on this slide are apps that were requested by at least 2 or more faculty members.

Helpfulness of Apps Used*
Students' Feedback

students felt Pages was helpful

De Anza College BSI iPad Pilot
Helpfulness of App to Course Success,
Fall 2015

Legend: ■ iMovie App ■ Keynote App ■ Microsoft PPT App ■ Pages App ■ Remind App

	Not at all helpful | A little helpful	Somewhat helpful	Helpful | Very helpful
iMovie App	36%	18%	45%
Keynote App	42%	14%	44%
Microsoft PPT App	44%	21%	35%
Pages App	15%	8%	77%
Remind App	62%	7%	31%

* The 5 apps shown on this slide are apps that were requested by at least 2 or more faculty members.
Reflects respondents who reported they use the app(s)

Perception of Tech Tools
Students, Pre vs. Post

Perception of Technology Tools	"Agree" or "Strongly Agree" Responses									
	Test Group					Control Group				
	Pre		Post		Difference	Pre		Post		Difference
	Students	Percent	Students	Percent	(Post % - Pre%)	Students	Percent	Students	Percent	(Post % - Pre%)
I am more focused in my courses when technology tools are used in the classroom	32	38%	43	52%	+14	23	34%	12	36%	+3
I learn better when courses use technology tools and not rely solely on lectures	44	52%	53	64%	+12	29	43%	15	45%	+3
Technology tools make it easier for me to complete my course assignments	58	68%	67	81%	+12	42	62%	22	67%	+5
I think I will have a difficult time using technology tools in the classroom	11	13%	13	16%	+3	7	10%	2	6%	-4
I enjoy my courses more when technology tools are used in the classroom	50	59%	54	65%	+6	29	43%	17	52%	+9

Test Group respondents = 85 (pre-survey); 68 (post-survey) | Control Group respondents = 83 (pre-survey); 33 (post-survey)

Perception of Tech Tools
Faculty, Pre vs. Post

Perception of Technology Tools	"Agree" or "Strongly Agree" Responses				
	Pre		Post		Difference
	Faculty	Percent	Faculty	Percent	(Post % - Pre%)
I think technology tools will make it easier for me to *grade* assignments	3	75%	3	100%	+25
I think my students prefer courses that integrate technology tools into the curriculum	4	100%	3	100%	0
I think technology tools will make it easier for me to *assign* assignments	3	75%	2	67%	-8
I think I will enjoy using technology tools in the classroom	3	75%	2	67%	-8
I think my students will be more successful in courses that use technology tools (C or better, or Pass)	2	50%	1	33%	-17
I think my students will be more engaged in the courses that use technology tools	4	100%	2	67%	-33
I see value in using technology tools in the classroom	4	100%	2	67%	-33

Faculty respondents = 4 (pre-survey); 3 (post-survey)

Research Questions
Revisited

How did the iPad…

…Affect Students?

iPad and App Experience	Agree or "Strongly Agree" Responses			
	Test Group		Faculty	
	Students	Percent	Faculty	Percent
I enjoyed using the iPad and digital apps in this class	63	76%	2	67%
The iPad and digital apps made it convenient to complete the coursework	61	73%	1	33%
The iPad and digital apps made the course content more interesting	60	72%	1	33%
I am glad my instructor incorporated the iPad and digital apps into this class	53	64%	1	33%
The iPad and digital apps helped me engage with my classmates	45	54%	1	33%
The iPad and digital apps made the class more challenging	17	20%	1	33%
I wished my instructor had lectured more rather than used the iPad and digital apps	16	19%	3	100%

Test Group respondents = 83 | Faculty respondents = 3
*Statements were written from the perspective of the student and faculty, respectively

…Affect Faculty?

iPad and App Experience	"Agree" or "Strongly Agree" Responses	
	Faculty	Percent
The iPad and digital apps made the class more challenging for me	2	**67%**
The iPad and digital apps made teaching more interesting for me	1	**33%**
The iPad and digital apps made it easier for me to *assign* assignments	1	**33%**
The iPad and digital apps made it easier for me to *grade* assignments	1	**33%**
I see value in using the iPad and digital apps in this class	1	**33%**
I enjoyed using the iPad and digital apps in this class	1	**33%**
The iPad and digital apps I used in this class will be useful for my other classes	1	**33%**
I am glad I incorporated the iPad and digital apps into this class	1	**33%**
I would like to use the iPad and/or digital apps for my future courses	1	**33%**

Faculty respondents = 3

… Affect Engagement?
Student and Faculty Response

| Students' Course Engagement	"Yes" or "Agree/Strongly Agree" Responses				Difference
	Pre		Post		
	Students	Percent	Students	Percent	(Post % - Pre %)
The iPad and digital apps helped me engage with my **instructor**	44	52%	52	63%	+11
The iPad and digital apps helped me engage with the **course content**	56	66%	56	67%	+2

Faculty's Course Engagement	"Yes or "Agree/Strongly Agree" Responses				Difference
	Pre		Post		
	Faculty	Percent	Faculty	Percent	(Post % - Pre %)
The iPad and digital apps helped me engage with my students	2	50%	1	33%	-17
The iPad and digital apps helped my **students engage with me**	2	50%	0	0%	-50
The iPad and digital apps helped my **students engage with the course content**	4	100%	1	33%	-67

Test Group respondents = 85 (pre-survey); 68 (post-survey)
Faculty respondents = 4 (pre-survey); 3 (post-survey)

… Affect Student Course Success?
Success Rates*, Test vs. Control

De Anza College BSI iPad Pilot Success Rate by Course, Fall 2015
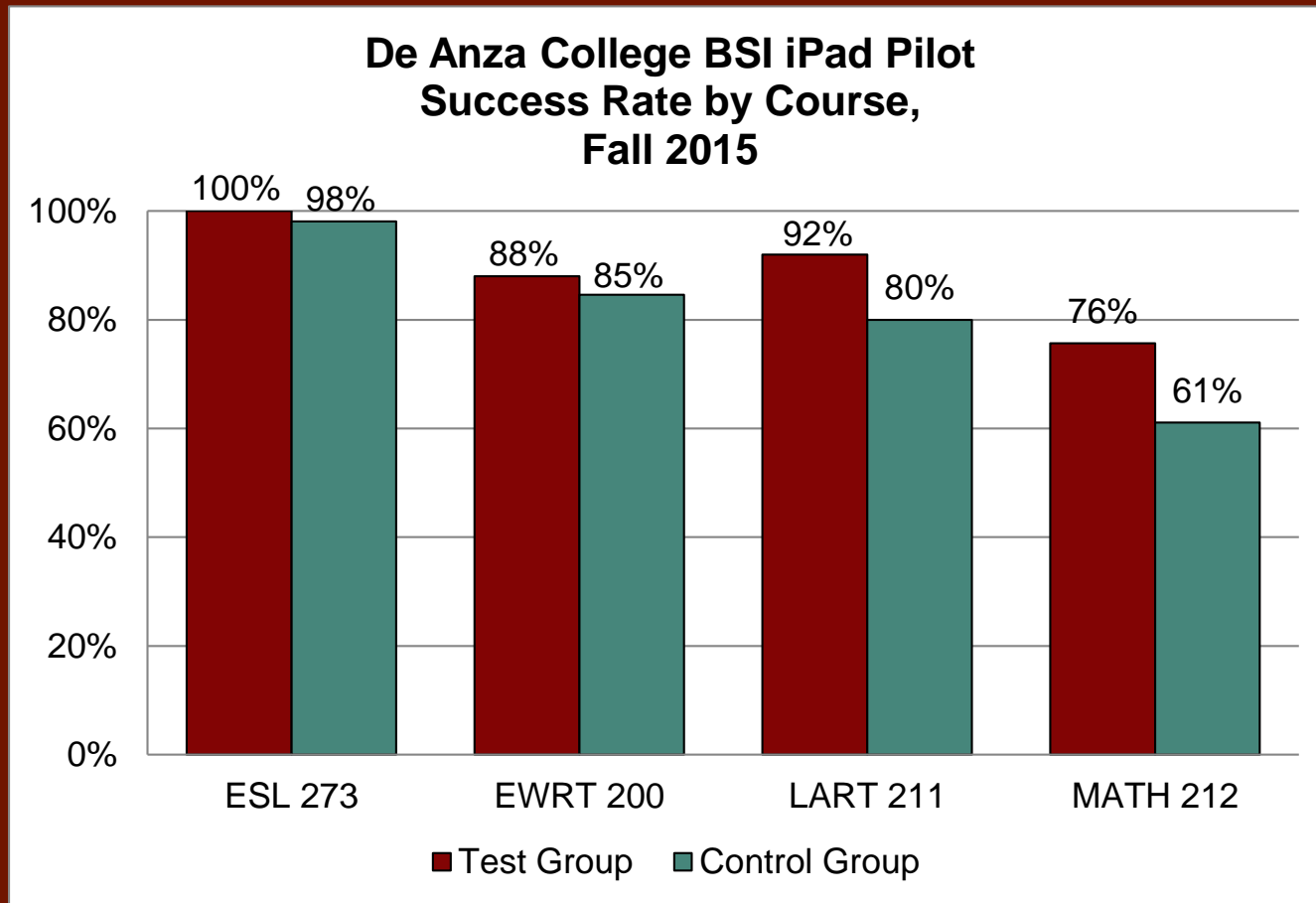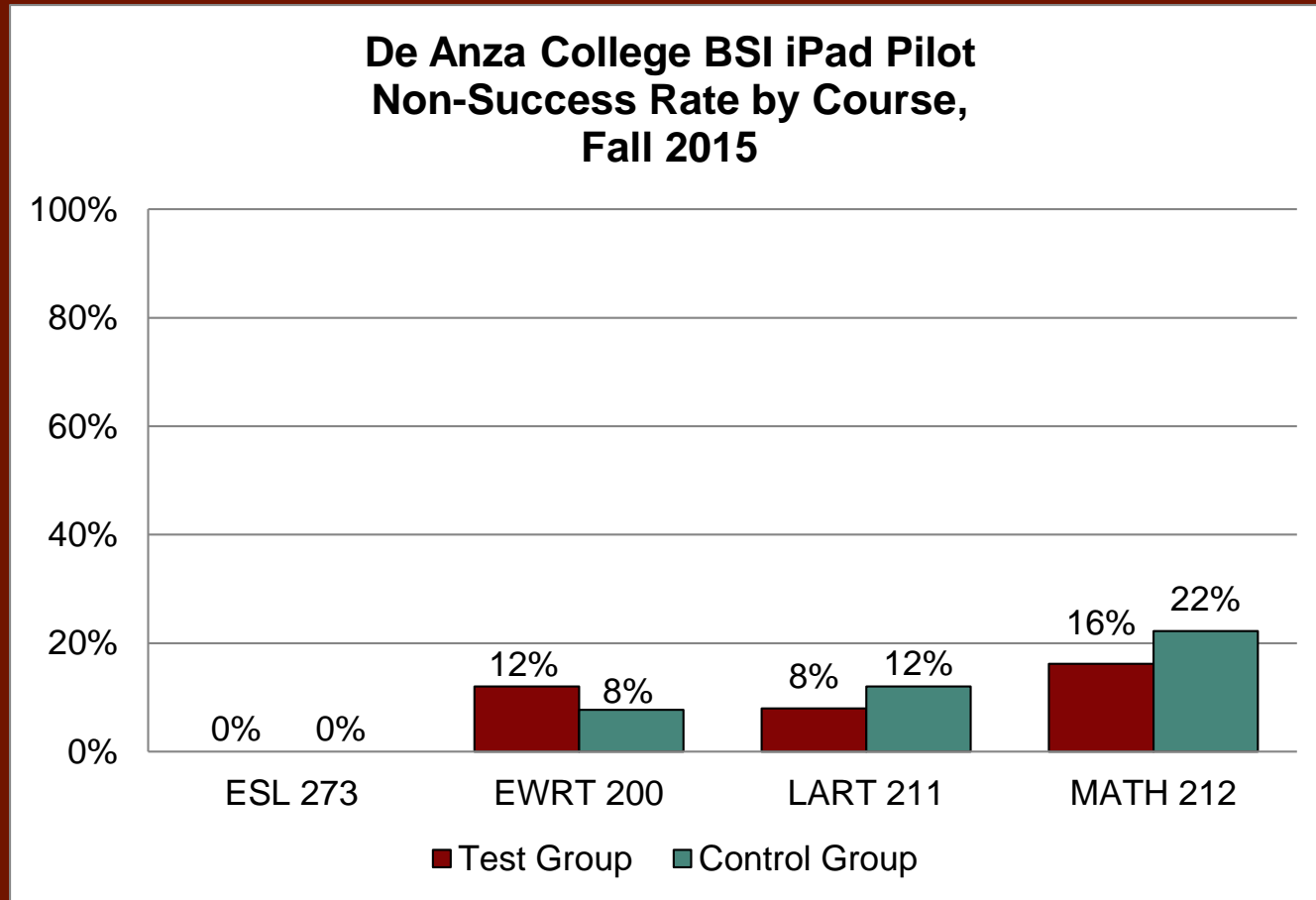
Source: Fall 2015 FHDA IR&P ODS
*Success rate = number of students who earned an A, B, C or Pass ÷ total student count
Note: Finding does not provide evidence of a causal relationship between iPads and student course success

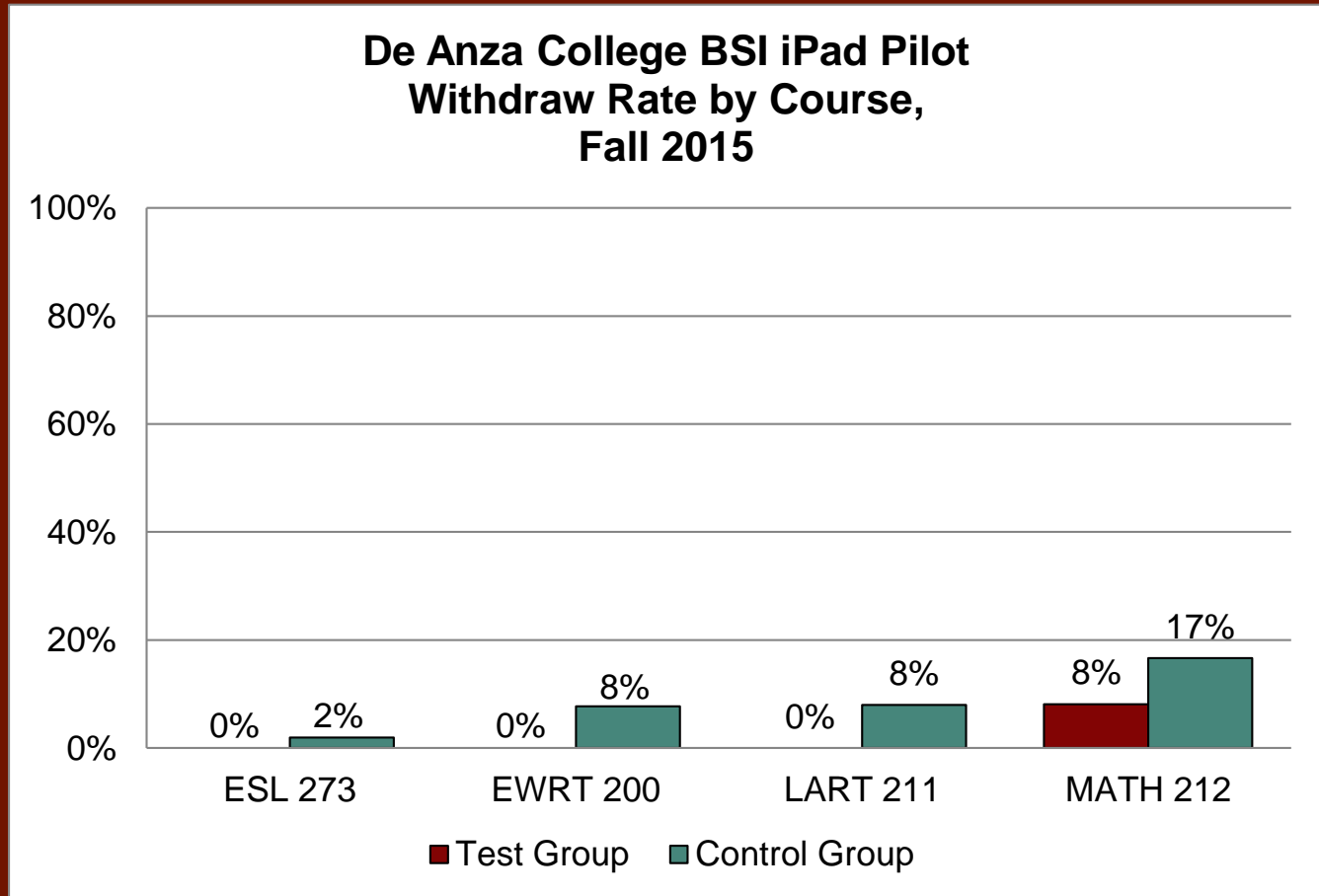# … Affect Student Course Success?
Non-Success Rates*, Test vs. Control

De Anza College BSI iPad Pilot
Non-Success Rate by Course,
Fall 2015

… Affect Student Course Success?
Withdraw Rates*, Test vs. Control

De Anza College BSI iPad Pilot
Withdraw Rate by Course,
Fall 2015

Discussion & Next Steps