

FOOTHILL COLLEGE

Institutional Research and Planning

DATE: September 9, 2013

TO: Andrew LaManque, Executive Director, Institutional Research & Planning

FROM: Thomas Margesson, Student Assistant

Elaine Kuo, College Researcher

RE: ECAR 2013 Survey Results

Overview

The Educause Center for Applied Research's (ECAR) annual study of undergraduate students and information technology surveys students' about their experiences with technology and their relationship with digital technology in the classroom. The 2013 survey was administered during the winter quarter in February 2013. Email invitations were sent to a sample of students who were aged 18 or older at De Anza College and Foothill College. Of the 7,423 De Anza students invited to participate in the survey, 394 completed the survey for a response rate of 5%. The response rate was similar at Foothill where 237 students out of 4,704 completed the survey.

Highlights:

- Laptops and smartphones are the most widely owned devices among students at both De Anza and Foothill. Over 80% of respondents own a laptop and over 75% own a smartphone. Additionally, approximately two-thirds of respondents (66% at De Anza and 70% at Foothill) own both a laptop and a smartphone.
- Nearly all respondents have at least one internet capable device (97% at De Anza and 99% at Foothill). Over half of the respondents have multiple internet capable devices with 55% of participants at De Anza and 61% at Foothill owning three or more such devices.
- The vast majority of respondents feel laptops are the most important devices for academic success (91% at De Anza and 90% at Foothill). Respondents cited the second most important device, smartphones, at a lower percentage rate compared to laptops (61% at De Anza and 57% at Foothill).
- More than half of the respondents from De Anza (55%) and Foothill (60%) cite courses with some online components as the learning environment where they learn the most, while less than 10% feel they learned the most with online only courses.
- The majority of participants have not participated in a Massive Open Online Course (MOOC) in the past year (97% at De Anza and 90% at Foothill), with three-fourths of participants at De Anza and nearly two-thirds at Foothill unable to define a MOOC.

Methodology

Source

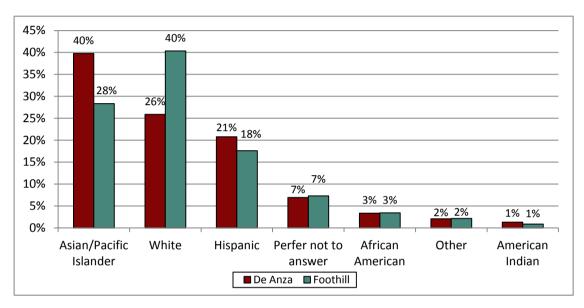
2013 ECAR Study of Undergraduate Students and Information Technology Survey

<u>Age</u>

	De Anza	College	Foothil	l College
Age	N	%	N	%
18-24	255	65%	121	51%
25+	139	35%	116	49%
Total	394	100%	237	100%

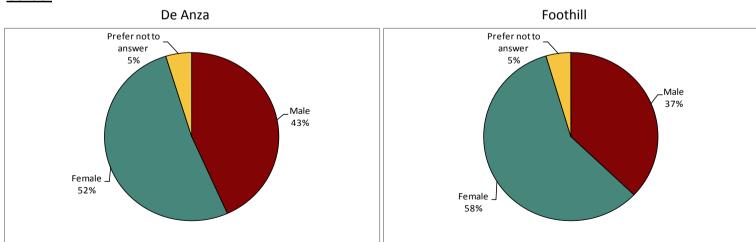
- In general, survey participants reflect the student populations by age at each college, although at Foothill, students 25 and older, who represent almost half of the respondents, composed only 42% of the Winter 2013 enrollment.

Ethnicity



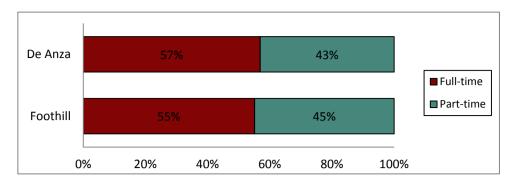
- The percentages of Asian/Pacific Islander and White participants at De Anza and Foothill differ slightly from the actual populations at each college. In Winter 2013, Asian/Pacific Islanders represented 45% at De Anza and 32% at Foothill, while Whites represented 23% at De Anza and 36% at Foothill.

<u>Gender</u>



-There are slightly more females, about four-percentage point higher, when comparing the survey respondents to the Winter 2013 student population.

Enrollment

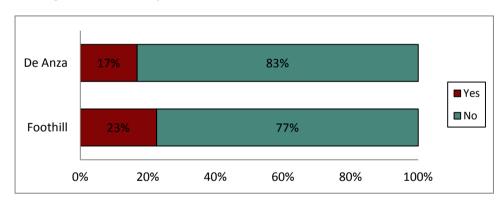


⁻ The percentage of full-time respondents (57% at De Anza and 55% at Foothill) is greater than the percentage of full-time students for the overall population at both De Anza and Foothill in Winter 2013 (45% at De Anza and 37% at Foothill).

Class standing during the current academic year

	De Anza	College	Foothil	l College
Class Standing	N	%	N	%
Freshman or first-year student	104	26%	52	22%
Sophomore or second-year student	139	35%	80	34%
Junior or third-year student	54	14%	35	15%
Senior or fourth-year student	30	8%	10	4%
Other type of undergraduate student	67	17%	60	25%
Total	394	100%	237	100%

Percentage of students taking classes at multiple institutions



⁻ The percentage of respondents taking classes at multiple institutions is slightly higher at Foothill compared to De Anza (23% vs. 17%)

Academic Goal

	De Anza College		Foothil	l College
	N	%	N	%
A bachelor's degree (or equivalent)	128	33%	68	29%
A master's degree (or equivalent)	106	27%	62	26%
An associate's degree (or equivalent)	70	18%	37	16%
Another professional degree (MD, DDS, JD, Ed.D, etc.)	23	6%	21	9%
A doctoral degree (or equivalent)	22	6%	26	11%
A vocational/occupational certificate	17	4%	17	7%
Digital badges or patches that certify my skills	13	3%	3	1%
Other	8	2%	3	1%
Total	387	100%	237	100%

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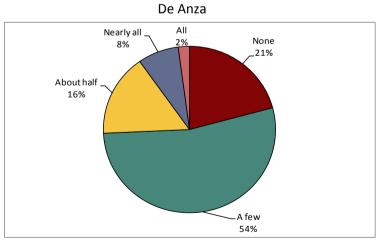
Current or intended major

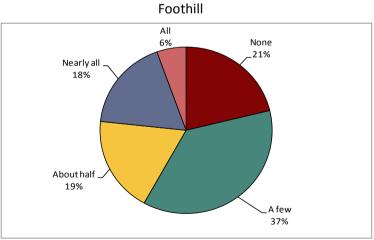
	De Anza	De Anza College		l College
	N	%	N	%
Business, management, marketing	62	16%	23	10%
Health sciences, including professional programs	49	13%	47	20%
Biological/life sciences	36	9%	29	12%
Computer and information sciences	35	9%	17	7%
Engineering and architecture	29	8%	15	6%
Social sciences, including history and psychology	27	7%	28	12%
Fine and performing arts	25	6%	16	7%
Other (Please describe)	23	6%	16	7%
Undecided	23	6%	10	4%
Liberal arts/general studies	23	6%	3	1%
Communications/journalism	13	3%	1	0%
Physical sciences, including mathematical sciences	10	3%	9	4%
Public administration, legal, social, and protective services	10	3%	2	1%
Education, including physical education	8	2%	7	3%
Manufacturing, construction, repair or transportation	6	2%	1	0%
Humanities	5	1%	5	2%
Agriculture and natural resources	1	0%	6	3%
Total	385	100%	235	100%

- Other majors listed by respondents include: Media/Graphic Design, Green Industry, Electrical, and double majors.

Student Course History

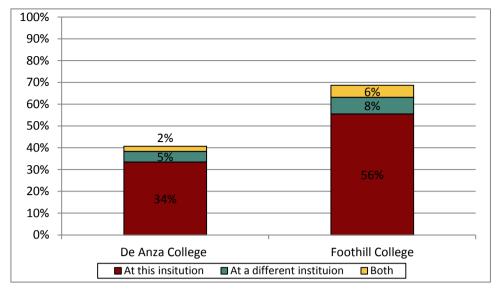
Percentage of hybrid in class/online courses



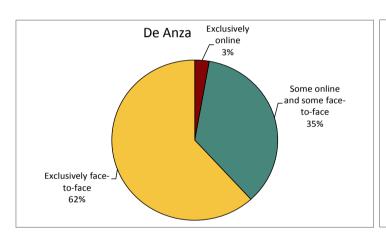


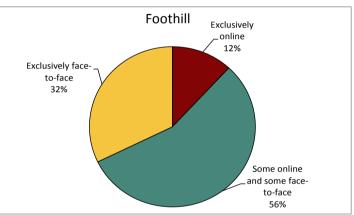
- Foothill survey respondents were more likely to enroll in more hybrid or online courses within the past year, with 43% indicating that about half or more of their classes were hybrid or online courses. In comparison, only 26% of the De Anza respondents demonstrate the same level of enrollment in these courses.

Participation in completely online classes in the past year



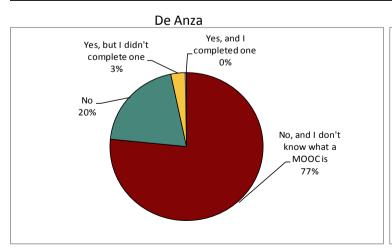
- Over half of Foothill respondents enrolled in a fully online course at Foothill (62%), while 8% enrolled in an online course at another institution. In comparison, about one-third of De Anza respondents enrolled in an online course at De Anza (36%) and 5% enrolled in an online course at another institution.

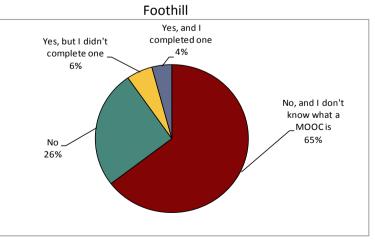




- Respondents at Foothill are more likely to enroll in a course with an online component, with 68% indicating they have enrolled in either exclusively online or hybrid courses, compared to only 38% of De Anza respondents.

Participation in Massive Open Online Class (MOOC) in the past year





-The majority of participants have not participated in a MOOC in the past year (97% at De Anza and 90% at Foothill). Three-fourths of participants at De Anza and nearly two-thirds at Foothill do not know the definition for a MOOC.

Use of resources/tools for academic coursework

	E-por	tfolios	E-books		Simulations or educational games	
	N	%	N	%	N	%
Used in one course	101	61%	105	39%	160	68%
Used in a few courses	43	26%	92	34%	45	19%
Used in about half my courses	10	6%	35	13%	20	9%
Used in most of my courses	4	2%	26	10%	7	3%
Used in all my courses	8	5%	11	4%	3	1%
Total	166	100%	269	100%	235	100%

Foothill

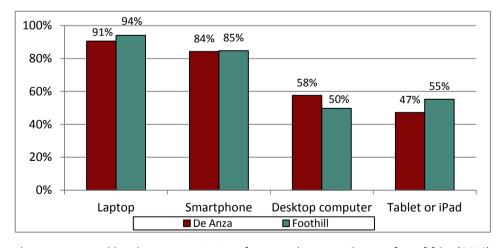
De Anza

	E-portfolios		E-books		E-portfolios E-books			tions or nal games
	N	%	N	%	N	%		
Used in one course	79	70%	66	38%	85	62%		
Used in a few courses	15	13%	41	24%	35	25%		
Used in about half my courses	7	6%	26	15%	11	8%		
Used in most of my courses	6	5%	27	16%	3	2%		
Used in all my courses	6	5%	12	7%	4	3%		
Total	113	100%	172	100%	138	100%		

- Survey respondents report that e-portfolios are more likely than e-books and simulations/educational games to be used in one of their courses (61% at De Anza and 70% at Foothill). However, e-books are more likely to be used in multiple courses, with more than one-fourth of De Anza participants (27%) and over one-third of Foothill participants (38%) indicating that they used e-books for about half or more of their courses.

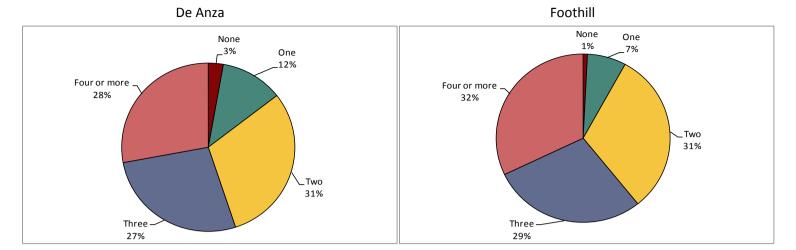
Access to Technology

Students who currently own the device or plan to purchase one within the next 12 months



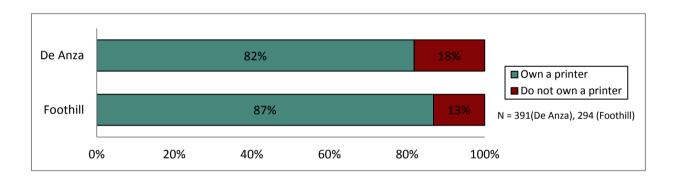
- Laptops and smartphones are used by the vast majority of respondents, with over four-fifths (80%) of participants indicating they either own or plan to purchase these devices. There is little difference among ethnic groups; over four-fifths of all the groups either own or plan to purchase a laptop and/or smartphone.

Number of internet capable devices



-Nearly all respondents report owning least one internet-capable device (97% at De Anza and 99% at Foothill). Over half of the respondents own multiple internet-capable devices, with 55% of participants at De Anza and 61% at Foothill owning three or more devices.

Percentage of Students who own a printer



Use of college provided desktop computers

	De Anza	College	Foothill College		
Top Five Responses	N	%	N	%	
Access printing services	171	44%	93	41%	
Convenience	167	43%	94	41%	
Access library resources	132	34%	68	30%	
Don't use	114	29%	92	40%	
Access specialty software	88	23%	54	24%	

Note: Students could select multiple responses.

- Even though four-fifths of respondents own a printer, over 40% of respondents indicate they used college-provided computers for printing services. However, more Foothill than De Anza participants report they do not use college-provided computers (40% vs.29%).
- Other uses of college-provided computers include(descending order): better internet, designated workspace, access specialty software, access specialty hardware, and build academic social networks.

Technology in the classroom

Typical in-class experience with devices

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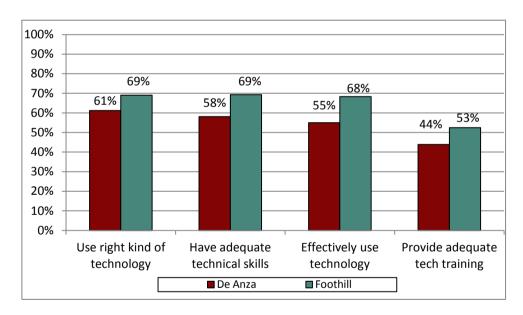
	Smartphone		Tablet or iPad		Laptop	
	N	%	N	%	N	%
Banned/Discouraged from using it in class	234	70%	91	34%	66	19%
Encouraged/Required to use it in class	14	4%	28	10%	59	17%
Neither encouraged/discouraged	87	26%	150	56%	220	64%
Total N (N/A responses have been excluded)	335	100%	269	100%	345	100%

Foothill

	Smartphone		Tablet or iPad		Laptop	
	N	%	N	%	N	%
Banned/Discouraged from using it in class	129	68%	37	22%	34	16%
Encouraged/Required to use it in class	9	5%	27	16%	63	29%
Neither encouraged/discouraged	53	27%	104	62%	120	55%
Total N (N/A responses have been excluded)	191	100%	168	100%	217	100%

⁻ Over two-thirds of respondents at both De Anza and Foothill indicate smartphones are either banned or discouraged in class. Laptops are the most accepted, with over four-fifths of participants at both colleges able to use the device in class as it is encouraged or neither encouraged or discouraged.

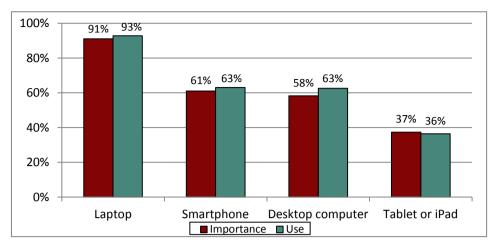
<u>Instructors and technology: Includes most or all responses</u>



⁻ While more than two-thirds of all respondents feel most or all of their instructors' use and knowledge of technology is suitable, roughly half (53% at Foothill) or fewer (44% at De Anza) feel most or all of their instructors provided adequate tech training to students.

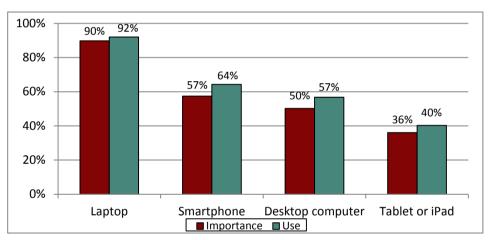
Importance of device to academic success compared to use of device for academic purposes





Note: Includes students responding moderately important, very important, or extremely important. Note: Includes students who use device for academic purposes only, or academic and other purposes.

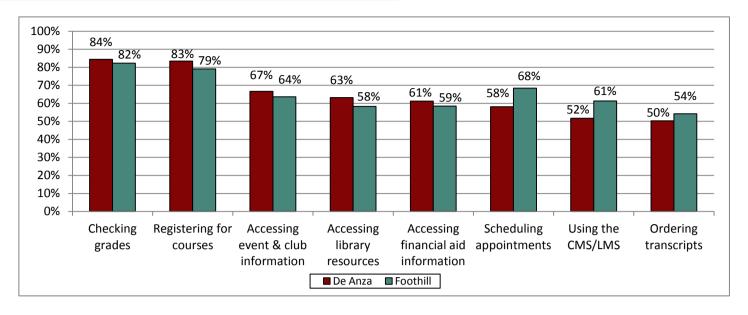
Foothill



Note: Includes students responding moderately important, very important, or extremely important. Note: Includes students who use device for academic purposes only, or academic and other purposes.

- Respondents at both Foothill and De Anza indicate that laptops are the most important devices for academic success . Laptops are also used more frequently for academic purposes than any other device. Smartphone importance and use for academic purposes is roughly 30 percentage points lower than laptops.

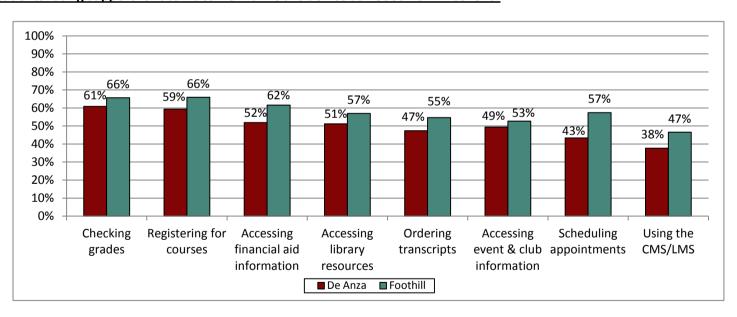
Services used on a mobile device by students within the past year



Note: Ratings do not include students who have not used the service within the past year.

- Roughly four-fifths of respondents at De Anza and Foothill used a mobile device to check grades and/or register for courses. Compared to Foothill respondents, De Anza respondents used their mobile devices at a slightly higher rate for all services, except scheduling appointments and using CMS/LMS and ordering transcripts.

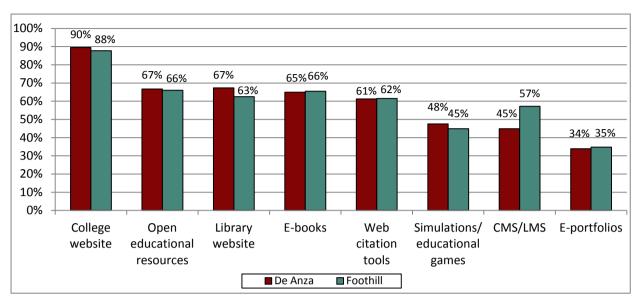
Students rating support for activities from a mobile device as "Good" or "Excellent"



Note: Ratings do not include students who have not used the service within the past year.

- Less than two-thirds of students who used their mobile device for school services rate the support as good or excellent. The highest rated services, checking grades and registering for courses, are also the most widely used services on mobile devices. Foothill respondents rate mobile device support higher than De Anza students, especially for scheduling appointments.

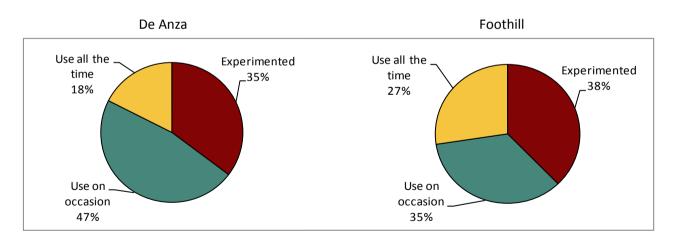
Important resources/tools for academic success



Note: Includes students responding moderately important, very important, or extremely important.

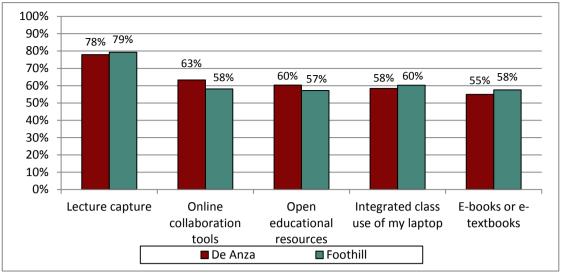
- The vast majority of respondents at De Anza (90%) and Foothill (88%) feel that the college website is an important resource in achieving academic success. Open educational resources was the second most frequently cited resource in importance (67% at De Anza and 66% at Foothill). De Anza and Foothill students rated a similar level of importance for the other resources/tools listed, except for CMS/LMS, where Foothill students rated this resource 12-percentage points higher than De Anza for being at least moderately important for academic success.

Frequency of use by students indicating use of open educational resources:



- Among students who have used open educational resources, a little over a third (35% at De Anza and 38% at Foothill) have only experimented with the platform. A higher percentage among Foothill compared to De Anza students report using open educational resources all the time (18% at De Anza and 27% at Foothill).

Top five resources/tools that students wished instructors used more



Lecture capture: N = 321 (De Anza), N = 203 (Foothill)

Integrated laptop: N = 274 (De Anza), N = 171 (Foothill)

Online collaboration: N = 270 (De Anza), N = 184(Foothill)

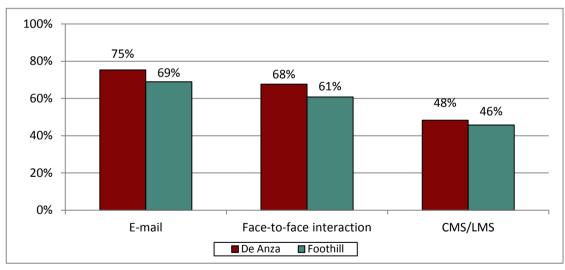
E-books: N = 271 (De Anza), N = 172 (Foothill)

Open education: N = 270 (De Anza), N = 159 (Foothill)

Note: N/A or Don't know responses have been excluded

- Over three-fourths of respondents at both colleges wish instructors would use lecture capture more.
- Other resources/tools that respondents wished instructors would use more include (in descending order): integrated class use of tablet, simulations or educational games, integrated use of smart phone, CMS/LMS and e-portfolios.

Forms of communication that students wished instructors used more:



Face-to-face: N = 340 (De Anza), N = 199 (Foothill)

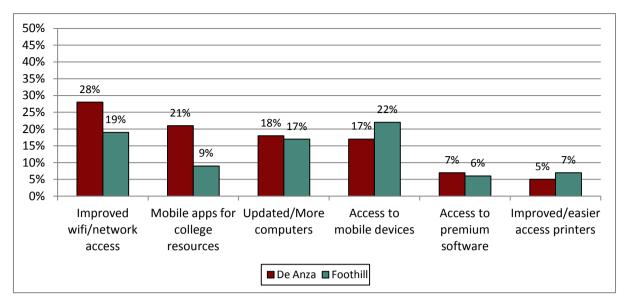
Email: N = 377 (De Anza), N = 216 (Foothill)

CMS/LMS: N = 240 (De Anza), N = 164 (Foothill)

Note: N/A or Don't know responses have been excluded

- Over two-thirds of respondents at both colleges wish instructors would use email for communication more frequently.
- Other forms of communication students wish instructors would use more include (descending order): audio/video interaction, instant messaging/online chatting, text messages, social studying sites, internet calls, Facebook, other social networking sites and Twitter.

New, better or "cutting-edge" technologies that would benefit the college experience



Note: Responses were gathered from students who responded to an open-ended question.

- The technology cited most by De Anza respondents (28%) was improved wifi/network access, including suggestions regarding faster speeds, extended coverage and more stable connections. Among Foothill respondents, the top cited technology was mobile device access (22%), which included having rental programs, student discounts and college rental or loaner programs.

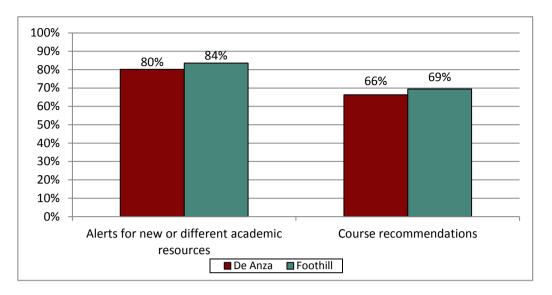
Learning environment:

De Anza		Le	Learn Most		efer
		N	%	N	%
	Courses with no online components	86	22%	97	25%
	Courses with some online components	214	55%	202	52%
	Courses that are completely online	23	6%	33	9%
	No preference	65	17%	56	14%
	Total	388	100%	388	100%

Foothill		Learn Most		Prefer	
		N	%	N	%
	Courses with no online components	47	20%	49	21%
	Courses with some online components	142	60%	129	55%
	Courses that are completely online	22	9%	37	16%
	No preference	24	10%	20	9%
	Total	235	100%	235	100%

- More than half of the respondents from De Anza (55%) and Foothill (60%) cite courses with some online components as the learning environment where they learn the most. Courses with some online components are also preferred by more than half of all respondents (52% at De Anza and 55% at Foothill). Less than 10% of respondents from both colleges feel that they learn the most with courses that are completely online.

Students interest in additional services



- Four-fifths of respondents (80% at De Anza and 84% at Foothill) have interest in their college providing guidance about course offerings, such as using "you may also like" or "we recommend" suggestions. Roughly two-thirds of respondents at De Anza (66%) and Foothill (69%) are interested in the college using information about students for alerts of new or different academic resources (e.g., tutoring, skills-building opportunities, etc.).

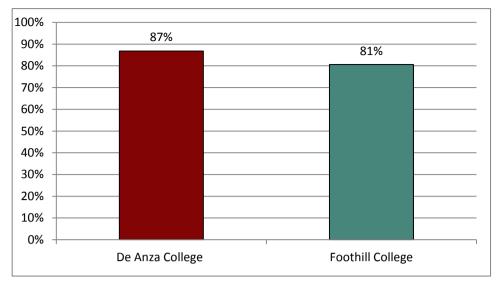
Student perception of technology in academic setting

<u></u>	De Anza College		Foothill	College
	N	%	N	%
Technology better prepares me for future educational plans	273	71%	186	79%
(i.e., transferring to another degree program, getting into graduate school).	273	71/0	100	7370
Technology helps me achieve my academic outcomes.	258	67%	168	72%
When I entered college, I was adequately prepared to use technology needed	244	63%	145	62%
in my courses.	244	0370	143	0270
I like to keep my academic life and my social life separate.	223	57%	149	63%
Technology makes me feel more connected to what's going on at the	210	55%	137	59%
college/university.	210	3370	157	3370
Technology makes me feel connected to professors.	209	54%	133	56%
By the time I graduate, the technology I have used in my courses will have	202	52%	120	51%
adequately prepared me for the workplace.	202	J2/0	120	J 170
Technology makes my education more affordable.	201	52%	114	48%
I am more likely to get involved in a campus activity when made aware of it	195	51%	114	49%
through technology.	193	31/0	114	4370
I get more actively involved in courses that use technology.	190	49%	129	55%
Technology makes me feel connected to other students.	184	49%	97	41%
The use of mobile devices in class can enhance learning.	128	33%	84	36%
I skip classes when materials from course lectures are available online.	37	10%	24	10%

Note: Includes students responding agree and strongly agree.

- While over two-thirds of respondents strongly agree or agree that technology better prepares students for future educational plans (71% at De Anza and 79% at Foothill), only about half strongly agree or agree that the technology used in their courses will be adequate preparation for the workplace (52% at De Anza and 51% at Foothill).
- Two -thirds of respondents strongly agree or agree that technology helps them achieve their academic outcomes (67% at De Anza and 72% at Foothill), but only about one-third strongly agree or agree that the use of mobile devices in class can enhance learning (33% at De Anza and 36% at Foothill).

Importance of being better trained or skilled at using technologies



Note: Includes moderately important, very important and extremely important responses

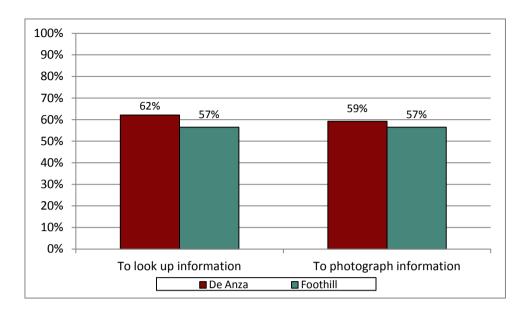
- Respondents at both colleges believe that it is at least moderately important to become better trained or skilled at using available technologies to learn, study or complete coursework (87% at De Anza and 81% at Foothill).
- When asked to give an example of the training desired, the most frequent response was software -related (MS Office, general applications, Adobe products, math programs, etc.) (59% at De Anza and 43% at Foothill). De Anza respondents also expressed a desire to improve basic computer skills (typing, internet searches, OS operation, etc.) at a much higher percentage rate compared to their Foothill counterparts (27% at De Anza and 2% at Foothill).

<u>Preferred methods of training among students who feel it is important to be better trained or skilled at using technology</u>

	De Anza	College	Foothill College		
	N	%	N	%	
Training mode: Face-to-face	109	62%	62	59%	
Training length: Short-term	100	56%	66	63%	
Training design: On-demand web resources	83	47%	58	55%	
Trainer: Your instructors	128	72%	76	72%	

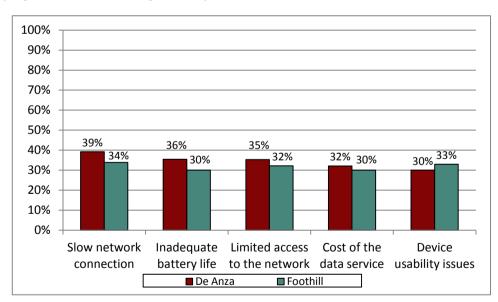
- Respondents at both colleges tend to prefer training that was conducted face-to-face rather than online; offered short-term rather than full-term; available on-demand rather than as a traditional course; and held by instructors rather than peers or help desk staff.

Top two ways smartphones would act as effective learning tool during class



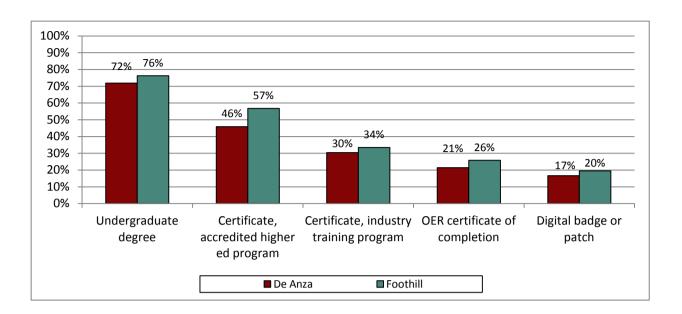
- More than half of respondents from both colleges cite looking up and photographing information as an effective learning tool during their classes.
- Other ways smartphones are cited as an effective learning tool during class include (descending order): to access digital resources, to record instructors and to participate in class-related activities/discussions.

Most cited issues keeping students from using a smartphone as an academic tool



- Network issues represent two of the top three most cited issues preventing use of a smartphone as academic tool at both colleges.
- Other cited issues include (descending order): cost of the device, devise usability issues (small screen, keyboard, etc.), lack of useful apps, privacy concerns and cost of apps.

When you think about documenting the skills you gain during higher education experiences, which of these would you include in your application portfolio for an employment interview?



- An undergraduate degree from an accredited college or university is most likely to be used to document skills gained during higher education, with approximately three-fourths of respondents (72% at De Anza and 76% at Foothill) indicating they would include it in their application portfolio for an employment interview. A higher percentage of Foothill compared to De Anza respondents also indicated that they would include their certificate from an accredited college or university program (46% at De Anza and 57% at Foothill).
- Documentation to be included in an application portfolio that was least cited by respondents include: letters of recommendation, examples of work, and work experience (2% at De Anza and 3% at Foothill).



ECAR Study of Undergraduate Students and Technology, 2013

Survey Questionnaire

February 2013

This is a printable version of an online survey. The online survey varies in format based on branching or "skipping" logic programmed into the survey.

This is a PDF rendition of an online version of the survey. Some questions and answer options have been removed from the initial PDF version (published in November 2012) to maintain the 20-minute maximum time frame for the survey. The content of the final version does not substantively deviate from what was initially published, and a version showing the specific changes is available upon request from ecarstudy@educause.edu.

Message to Participants

Welcome to the 2013 ECAR student technology survey. This survey should take you no more than 20 minutes to complete, and your responses are anonymous. We ask questions about your experiences with and attitudes toward technology and your academic experiences. Your responses will help people on your campus and beyond understand how to use technology more effectively to benefit students. There are no right or wrong answers; we'd just like you to answer as honestly as you can. Participation in the survey is completely voluntary, and at any point you can choose to exit the survey.

You must be at least 18 years old and a full-time or part-time undergraduate student to complete this survey. Click the "Next" button below if you agree to participate.

Section 1: About You

- 1.1. What is your age? We may only survey students 18 years and older. Required.
- <<Dropdown list including Under 18, 18 through 80 in one-year increments, and Over 80. Respondents under 18 must exit the survey.>>
- 1.2. Which of the following best describes your class standing during the current academic year? Required.
- () Freshman or first-year student << Go to Q1.3>>
- () Sophomore or second-year student << Go to Q1.3>>
- () Junior or third-year student << Go to Q1.3>>
- () Senior or fourth-year student << Go to Q1.3>>
- () Other type of undergraduate student << Go to Q1.3>>
- () Not an undergraduate student. Note, only undergraduate students are eligible to take this survey. << Go to end to exit survey>>
- 1.3. What college or university do you attend? Required.
- <<Dropdown list of colleges/universities that qualify to participate in the study.
- <a student selects an institution that indicated they will NOT use the ECAR incentive message, skip to Q2.1; all others go to Q1.4>>

1.4. If you would like to be entered into a drawing to receive a \$50 or \$100 Amazon.com gift certificate, please
provide your e-mail address here. The drawing will be held by June 30, 2013, and e-mail addresses will be permanently
deleted from our database no later than July 31, 2013. Your e-mail address will only be used for the purpose of this
drawing

Section 2: Device Use and Ownership

	No, and I don't plan to purchase	No, but I plan to purchase	
	one within the next 12 months	one within the next 12 months	Yes, I currently
	< <go 2.3="" to="">></go>	< <go 2.3="" to="">></go>	own one
Laptop			< <go 2.2a="" to="">></go>
Tablet or iPad			< <go 2.2b="" to="">></go>
Smartphone			< <go 2.2c="" to="">></go>
Dedicated e-reader			< <go 2.2d="" to="">></go>
Desktop computer			< <go 2.2e="" to="">></go>

	No, and I don't plan to purchase	No, but I plan to purchase	
	one within the next 12 months	one within the next 12 months	Yes, I currently
	< <go 2.3="" to="">></go>	< <go 2.3="" to="">></go>	own one
Laptop			< <go 2.2a="" to="">></go>
Tablet or iPad			< <go 2.2b="" to="">></go>
Smartphone			< <go 2.2c="" to="">></go>
Dedicated e-reader			< <go 2.2d="" to="">></go>
Desktop computer			< <go 2.2e="" to="">></go>
() Linux () Other () Don't know			
	of operating system (OS) does you e one you use most often for school-r		ave more than one
() iOS (iPad)			
() Windows OS			
() Android OS			
() BlackBerry O	S		
() webOS			
() Other OS			
() Don't know			
	of smartphone do you have? If you	u have more than one smartphon	e, please select the
	st often for school-related work.		
() iPhone			
() Android phon			
() Windows pho			
() BlackBerry ph	none		

() iPhone
() Android phone
() Windows phone
() BlackBerry phone
() Other smartphone
() Don't know

	e or <i>e-reader</i> do for school-relate	-	you nave more t	nan one <i>e-reade</i>	r, piease seied	one that
() Kindle	ioi scriooi-relate	u work.				
` '						
() Nook	_					
() Sony Reade						
() Other dedica	ated e-reader					
() Don't know						
2 2e What tyne	e of operating s	vetem (OS) de	nes vour deskto	on computer has	va2 If you usa	more than on
	iter, please selec		-	-	-	more triair on
() Windows	nor, produce corec		you doo moot on		atou work.	
() Mac						
() Linux						
() Other						
() Don't know						
() Don't know						
.3 Regardless of whet	ther you own or	ne, please tell	us how you us	e each device.		
	Haven't used in		or academic and	Use for acaden	nic Us	e for other
	past year	oth	ner purposes	purposes only	y pur	poses only
Laptop						
Tablet or iPad						
Smartphone						
Dedicated e-reader						
Desktop computer						
.4 How important is e	ach device to yo N/A; Don't use the	our academic	success? Not very	Moderately	Very	Extremely
	device	important	important	important	important	important
Laptop						
Tablet or iPad						
Smartphone						
Dedicated e-reader						
Desktop computer						
.5 If you use a <u>deskto</u>	n computer <i>pro</i>	vided by you	r institution, in	what ways or fo	r what purpo:	ses do vou us
Desktops could be in			•	-		-
Convenience—I don't	-		•	ir triat apply.	iditiple reepond	30022
Access library resource		aptop marin				
Access printing service						
Access specialty softy						
Access specialty solt						
Access specially hard Access to faster or mo		et connectivity				
] Use a designated wor		commodivity				
] Ose a designated wor] Build academic social	•					
] Don't use a desktop p		stitution				
		อแนแUH				
] Other; please specify:	·					

2.6 Do you own a printer?							
() No							
() Yes							
Section 3: Technology and the Colleg	je Experienc	е					
2.4 What turned of new bottom or "outting odge" to	obnologica wa	uld banafit your	aallaga	lunivor	situ ovnor	ionoo?	
3.1 What types of new, better, or "cutting-edge" to	echnologies wol	uid benefit your	conege	/univers	sity exper	ience?	
3.2 Thinking about the past year, please rate your	institution's su	pport for the fol	lowing	activitie	s from a	mobile	
device:			J				
	Service not	Haven't used					
	offered for mobile device	service in the past year	Poor	Fair	Neutral	Good	Excelle
a. Accessing library resources	mobile device	past year	1 001	I all	iveutiai	0000	LXCCIIC
b. Checking grades							
c. Registering for courses							
d. Accessing financial aid information							
e. Ordering transcripts f. Using the course or learning management							
system (e.g., Moodle, Blackboard, Sakai,							
Desire2Learn, etc.) g. Accessing information about events, student	1					-	
activities, and clubs/organizations							
h. Scheduling appointments (e.g., academic							
advising, student health, counseling, etc.)							
3.3 Thinking about your college experience within	the past year. I	how many of vo	ur instri	uctors:			
	paot you., <u>.</u>	iow many or yo	<u>ur mour</u>			Т	
	- d- mi	<u> </u>		None	e Some	e Mos	t Al
aeffectively use technology to support your ac bprovide you with adequate training for the technology.						+	
chave adequate technical skills for carrying ou						_	
duse "the right kind(s)" of technology?	t course manach	011:					
uuse the right kind(s) of technology:							
3.4. How important is it that YOU are better trained	ed or skilled at u	ısing available t	echnolo	aies to	learn, stu	ıdv. or	
complete coursework? Required.				3	,	, ,	
() Not at all important < <go 3.5="" to="">></go>							
() Not very important < <go 3.5="" to="">></go>							
() Moderately important < <go 3.5="" to="">></go>							
() Very important < <go 3.4a,="" 3.4b,="" 3.5="" to="">></go>							
() Extremely important < <go 3.4a,="" 3.4b,="" 3.5="" to="">></go>							
2 de Cive us en exemple et veur trainin	, noodo or dooi:	ed tooknied ak	:IIo ^	براده باد	if O2 4 io 1	Vone	
3.4a. Give us an example of your training Important or Extremely Important>>	_		IIIS: <<	isk offiy	II Q3.4 IS	very	
important or Extremely important/>							
3.4b. In what way(s) do you want to rece	ive more techni	cal training? Se	elect all t	hat annl	v.< <ask o<="" td=""><td>nlv if Q3</td><td>4</td></ask>	nlv if Q3	4
is Very Important or Extremely Important>>		_		الططه . حد	,	<i>,</i> 	

MODE:	
[] Face-to-face	
[] Online	
[] Don't care	
[] N/A	
[] Other: please describe	
LENGTH:	
[] Full-term (e.g., semester, trimester, quarter)	
[] Short-term	
[] Don't care	
[] N/A	
[] Other: please describe	
DESIGN:	
[] Structured like a traditional course	
[] On-demand web-based resources	
[] On-demand help desk support	
[] Don't care	
[] N/A	
[] Other: please describe	
TRAINER:	
[] Your instructors	
[] Your peers	
[] College/university help desk staff	
[] Don't care	
[] N/A	
[] Other: please describe	
	ng guidance about course offerings, such as using " <i>you may</i>
also like" or "we recommend" suggestions?	
() Don't know	
() Not at all interested	
() Not very interested	
() Moderately interested	
() Very interested	
() Extremely interested	
3.6 How interested are you in your institution using in	
academic resources (e.g., tutoring, skills-building op	portunities, etc.)? Required.
() Don't know	
() Not at all interested < <go 3.6a="" to="">></go>	
() Not very interested < <go 3.6a="" to="">></go>	
() Moderately interested	
() Very interested	
() Extremely interested	

	Don't know or N/A	Less				More
	0	1	2	3	4	5
a. E-mail						
b. Text messaging						
c. Instant messaging/online chatting						
d. Twitter						
e. Facebook						
f. Other social networking sites						
g. Social studying sites (Cramster, CourseHero, GradeGuru, etc.)						
h. Phone or phone-like communication over the Internet						
i. Face-to-face (in-person) interaction						
j. Audio/video interaction (virtual face-to-face with Skype "video," G-Talk "video," etc.)						
k. Course or learning management system (Blackboard, Moodle, Sakai, Desire2Learn, etc.)						

3.6a Why are you not interested in your institution using information they have about you to alert you of

3.8 How important are the following <u>resources/tools</u> to achieving your academic success?

	Did not use in the past year	Not at all important	Not very important	Moderately important	Very important	Extremely important
a. Academic institution's library website			·	·	·	
b. Course or learning management system (Blackboard, Moodle, Sakai, Desire2Learn, etc.)						
c. Web-based citation/bibliography tools (EndNote, CiteULike, OttoBib, etc.)						
d. College/university website						
e. E-portfolios						
f. E-books or e-textbooks						
g. Freely available course content beyond your campus (OpenCourseWare, Khan Academy, iTunes U, Mayo Clinic, etc.)						
h. Simulations or educational games						

3.9 In the past year, to what extent have you used <u>freely available course content</u> external to your college/university (i.e., OpenCourseWare, Khan Academy, iTunes U, Mayo Clinic, etc.)? <<Ask only if respective answer in 3.8g indicated use in the past year>>

- () Experimented with open educational resources
- () Use open educational resources on occasion

new or different academic resources?

() Use open educational resources all the time

	3.10 In the past year, to what extent have you used <u>e-portfolios</u> for	your acade	mic co	urse	work	? < <a< th=""><th>sk</th></a<>	sk
	only if respective answer in 3.8e indicated use in the past year>>						
	() Used in one course						
	() Used in a few courses						
	() Used in about half my courses						
	() Used in most of my courses						
	() Used in all of my courses						
	3.11 In the past year, to what extent have you used e-books or e-tex	<u>ktbooks</u> for	your a	cade	mic		
	coursework? << Ask only if respective answer in 3.8f indicated use in the	ne past yea	r>>				
	() Used in one course						
	() Used in a few courses						
	() Used in about half my courses						
	() Used in most of my courses						
	() Used in all of my courses						
	3.12. In the past year, to what extent have you used simulations or	educationa	ıl game	<u>s</u> in <u>y</u>	our		
	coursework? << Ask only if respective answer in 3.8h indicated use in the	ne past yea	r>>				
	() Used in one course						
	() Used in a few courses						
	() Used in about half my courses						
	() Used in most of my courses						
	() Used in all of my courses						
3.	13 Which <u>resources/tools</u> do you wish your instructors used less…or mor	e?					
		Don't					
		know or N/A	Less				More
	Course on learning management outland (Pleatheand Meadle Color	0	1	2	3	4	5
	a. Course or learning management system (Blackboard, Moodle, Sakai, Desire2Learn, etc.)						
	b. E-portfolios						
	c. E-books or e-textbooks						
	d. Freely available course content beyond your campus (OpenCourseWare, Khan Academy, iTunes U, Mayo Clinic, etc.)						
	e. Simulations or educational games						
	f. Lecture capture (for later use/review)						
	g. Online collaboration tools (Blackboard Collaborate, Adobe Connect, Google Docs)						

3.14 You mentioned that you wanted your instructors to use more <u>freely available course content</u> like
OpenCourseWare, Khan Academy, iTunes U, Mayo Clinic, etc.
Please share examples of how you would use this material:
< <ask if="" only="" q3.13d="">=4>></ask>

h. Integrated use of my tablet during classi. Integrated use of my smartphone during classj. Integrated use of my laptop during class

3.15 You mentioned that you wanted your instructors to use more <u>simulations or educational games</u> . Please share examples of the types of simulations or games you would like to see more:
< <ask if="" only="" q3.13e="">=4>></ask>
3.16 What online resource do you go to <i>first</i> to learn about a new topic? (e.g., Google, your institution's library website, Wikipedia, EBSCOhost or LexisNexus, etc.)
Section 4: Learning Environments
4.1 In what type of learning environment do you tend to learn most?
() Courses with no online components
() Courses with some online components
() Courses that are completely online
() No preference
4.2 What type of learning environment do you prefer?
() Courses with no online components
() Courses with some online components
() Courses that are completely online
() No preference
4.3 In the past year, how many of your courses have been "blended" courses (with some online components and
some face-to-face components)?
() None
() A few
() About half
() Nearly all
() All
4.4 In the past year, have you taken a completely online course? Choose all the "yes" options that apply. << multiple
responses>>
[] No
[] Yes, at the institution that asked me to participate in this survey
[] Yes, at a different institution
4.5. In the past year, have you taken a MOOC (massive open online course) through any institution/organization
(e.g., Coursera, Udacity, edX, MITx, etc.)? Required.
() No, and I don't know what a MOOC is < <go q4.6="" to="">></go>
() No < <go q4.6="" to="">></go>
() Yes, but I didn't complete one < <go 4.6="" to="">></go>
() Yes, and I completed one < <go 4.6="" q4.5a,="" to="">></go>
4.5a. Did you receive a digital badge or certificate for completing the MOOC?
() No

() Yes

4.6 When you think about documenting the skills you gain during your higher education experiences, which of these would you include in your application portfolio for <u>an employment interview?</u> Select all that apply.						
[] Undergraduate degree/diploma from an accredited co	llege or un	iversity				
] Certificate from an accredited college or university program						
[] Certificate from an industry-based training program] Certificate from an industry-based training program					
[] Certificate of completion from an institution/organization	on offering	freely-avail	able course	content		
Digital badge or patch that represents a skills-based competency or completed activity						
[] N/A						
[] Other, please specify						
4.7 To what extent do you agree with the following s learning?	tatement a	about socia	ıl networkin	g in conjur	ction with	your
icurinig.				Neither		
	Dan'4	Ctura va auli v	Company	agree		Ctus as all c
	Don't know	Strongly disagree	Somewhat disagree	nor disagree	Agree	Strongly agree
a. I like to keep my academic life and my social life			Ŭ	J		
separate.						
	l	L	l			
4.8 To what extent do you agree with the following s	tatements	?				
				Neither agree		
	Don't	Strongly	Somewhat	nor		Strongly
	know	disagree	disagree	disagree	Agree	agree
a. I get more actively involved in courses that use						
technology.						
b. By the time I graduate, the technology I have used						
in my courses will have adequately prepared me for						
the workplace.						
c. I skip classes when materials from course lectures						
are available online.						
d. When I entered college, I was adequately						
prepared to use technology needed in my courses.						
e. Technology makes me feel more connected to						
what's going on at the college/university.						
f. Technology better prepares me for future						
educational plans (i.e., transferring to another degree						
program, getting into graduate school).						
g. Technology makes me feel connected to other						
students.						
h. Technology makes me feel connected to						
professors.						
i. Technology helps me achieve my academic						
outcomes.						
j. The use of mobile devices in class can enhance						
learning.						
k. I am more likely to get involved in a campus						

activity when made aware of it through technology.

I. Technology makes my education more affordable.

4.9 Tell us ONE thing that <u>your instructors</u> can do with technology to better facilitate or support your academic success							
4.10 Tel	_	at <u>γοι</u>	<u>ır institution</u> ca	an do with techno	ology to better facilitat	te or support you	r academic
Section	on 5: Your Pe	rson	al Computi	ng Environn	nent		
5.1 How	many Internet-ca	apable	devices do yo	u own? Required	d.		
() None	< <go q5.2="" to="">></go>						
() One	< <go 5.2<="" q5.1a,="" td="" to=""><td>2>></td><td></td><td></td><td></td><td></td><td></td></go>	2>>					
. ,	< <go 5.2<="" q5.1a,="" td="" to=""><td></td><td></td><td></td><td></td><td></td><td></td></go>						
* *	e < <go 5<="" q5.1a,="" td="" to=""><td></td><td></td><td></td><td></td><td></td><td></td></go>						
	< <go 5.2<="" q5.1a,="" td="" to=""><td></td><td></td><td></td><td></td><td></td><td></td></go>						
	< <go 5.2<="" q5.1a,="" td="" to=""><td></td><td>25.5</td><td></td><td></td><td></td><td></td></go>		25.5				
() SIX 0	r more < <go q5<="" td="" to=""><td>о. та, э.</td><td>.2>></td><td></td><td></td><td></td><td></td></go>	о. та, э.	.2>>				
	5.1a What is you	ır tynic	cal in-class exp	perience with the	following devices?		
			Banned from	Discouraged	Neither discouraged		
			using it in	from using it in	nor encouraged about	Encouraged to	Required to
	Cmartabana	N/A	class	class	using it in class	use it in class	use it in class
	Smartphone Tablet or iPad						
	Laptop						
5.2 How	ı is a smartphone	an eff	fective learning	tool during you	r classes (or how wou	ıld it be)? Select a	ıll that apply.
	ole responses>>				•	•	,
[] To lo	ok up information re	elevan	t to the lecture/o	discussion			
[] To pa	rticipate in class-re	elated	activities/discus	sions			
[] To re	cord my instructors	3					
	otograph informati						
	cess digital resour						
	-a smartphone is n	ot an e	effective learning	g tool			
[] Other	, please describe:						
_	ardless of whether	-			g issues keeps you fro	om using a <u>s<i>mart</i></u>	phone as an
	of the device	triat a _l	ppiy. Camarapio	10000100022			
	of the data service						
	e usability issues (small s	screen, keyboar	d, etc.)			
	quate battery life	•	, ,	,			
	ed access to the ne	etwork	(hot spots, wire	less carrier covera	age, etc.)		
[] Slow	network connection	n					
[]Lack	of applications that	t are u	seful to me				
[] Cost	of applications that	are us	seful to me				
[] Conc	ern about the secu	rity/pri	vacy problems o	of mobile technolo	ду		
[] Conc	ern about the poter	ntial he	ealth problems o	of mobile technolog	gy		
[] N/A—	-a smartphone is n	ot an e	effective learning	g tool			

[] Other; please specify: _____

Section 6: Demographic and Informational Questions

6.1. May we share your open-ended, written responses with your institution? If you click "Yes," your written
responses will be included in a file with all other written responses from the survey participants at your
institution. Written response will be separated from the rest of the survey responses to help preserve individual
participants' anonymity. If you have included information in your written responses that could identify you, we suggest
clicking "No." Required.
() No
() Yes
6.2. Are you?
() Male
() Female
() Prefer not to answer
6.3. What is your ultimate academic goal, regardless of your current class standing?
() Digital badges or patches that certify my skills
() A vocational/occupational certificate
() An associate's degree (or equivalent if from an institution outside the United States)
() A bachelor's degree (or equivalent if from an institution outside the United States)
() A master's degree (or equivalent if from an institution outside the United States)
() A doctoral degree (or equivalent if from an institution outside the United States)
() Another professional degree (MD, DDS, JD, Ed.D, etc.)
() Other (Please describe)
6.4. What is your current or intended major? Pick the one that best fits your primary interest.
() Agriculture and natural resources
() Biological/life sciences
() Business, management, marketing
() Communications/journalism
() Computer and information sciences
() Education, including physical education
() Engineering and architecture
() Fine and performing arts
() Health sciences, including professional programs
() Humanities
() Liberal arts/general studies
() Manufacturing, construction, repair or transportation
() Physical sciences, including mathematical sciences
() Public administration, legal, social, and protective services
() Social sciences, including history and psychology
() Undecided
() Other (Please describe)

6.5. Are you currently a full-time or part-time student at the institution that asked you to complete this survey?
Part-time is fewer than 12 credit hours per quarter/semester.
() Part-time
() Full-time
6.6. What is your ethnic background? Select all that apply.
[] White
[] Black/African American
[] Hispanic
[] American Indian or Alaskan native
[] Asian/Pacific Islander
[] Other
[] Prefer not to answer
[] Freier not to answer
6.7. Do you live?
() On campus
() Off campus
6.8. Do you?
() Take classes exclusively online
() Take some classes online and some classes face-to-face
() Take classes exclusively face-to-face
6.9 Are you currently taking courses at more than one institution (either online, in-person, or a combination online
and in-person)?
() No
() Yes
(7.55

Thank you for responding to our questions. Click FINISH to submit your survey.