Contra Costa Community College District

## Contra Costa Community College District

# Districtwide Distance Education Strategic Planning Session 

September 16, 2016

Contra Costa Community College District
Office of Research \& Planning

Contra Costa
Community College District

## A quick overview of what we will be reviewing

- A snapshot of a few important state and national trends in online education
- enrollment by demographic groups
- online participation rates
- gaps in performance
- District trends in online enrollment, participation rates and performance gap
- Salient findings from 2013 technology usage survey


## A brief national overview of Distance Education

```
pathways to success
```

Demand for online courses continue to grow nationwide Online Enrollment as a Percent of Total Enrollment: Fall 2002 - Fall 2012



- 7.1 million students took at least one online course in fall 2012
- Most enrolled online courses are in Information Technology and Business Management.
- Persistent performance gaps by student ethnicity, gender and age.


## Contra Costa Community College District

pathways to success
Table 1. Number and percentage of students enrolled at Title IV institutions, by distance education enrollment status, student level, control and level of institution, and other selected characteristics: United States, fall 2012
Student level, control and level of institution,
region, institution size, institutional category, and
Tribal or Historically Black College and University
status


## National Center for Education Statistics

Total
21,147,055

| $18,236,340$ | $2,002,815$ | 11.0 | $2,582,475$ | 14.2 | $13,651,050$ | 74.9 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $16,225,545$ | $1,807,860$ | 11.1 | $2,466,785$ | 15.2 | $11,950,900$ | 73.7 |
| $1,623,082$ | 192,594 | 11.9 | 113,683 | 7.0 | $1,316,805$ | 81.1 |
| $2,910,715$ | 639,343 | 22.0 | 227,467 | 7.8 | $2,043,905$ | 70.2 |


| $18,236,340$ | $2,002,815$ | 11.0 | $2,582,475$ | 14.2 | $13,651,050$ | 74.9 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $16,225,545$ | $1,807,860$ | 11.1 | $2,466,785$ | 15.2 | $11,950,900$ | 73.7 |
| $1,623,082$ | 192,594 | 11.9 | 113,683 | 7.0 | $1,316,805$ | 81.1 |
| $2,910,715$ | 639,343 | 22.0 | 227,467 | 7.8 | $2,043,905$ | 70.2 |


| $18,236,340$ | $2,002,815$ | 11.0 | $2,582,475$ | 14.2 | $13,651,050$ | 74.9 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $16,225,545$ | $1,807,860$ | 11.1 | $2,466,785$ | 15.2 | $11,950,900$ | 73.7 |
| $1,623,082$ | 192,594 | 11.9 | 113,683 | 7.0 | $1,316,805$ | 81.1 |
| $2,910,715$ | 639,343 | 22.0 | 227,467 | 7.8 | $2,043,905$ | 70.2 |

Control and level of institution

|  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Control and level of institution |  |  |  |  |  |  |  |
| Public | $14,996,482$ | $1,249,135$ | 8.3 | $2,406,908$ | 16.0 | $11,340,439$ | 75.6 |
| 4-year | $8,092,727$ | 574,709 | 7.1 | $1,223,442$ | 15.1 | $6,294,576$ | 77.8 |
| 2-year | $6,845,174$ | 674,134 | 9.8 | $1,182,801$ | 17.3 | $4,988,239$ | 72.9 |
| Less-than-2-year | 58,581 | 292 | 0.5 | 665 | 1.1 | 57,624 | 98.4 |
| Private nonprofit | $3,975,542$ | 467,528 | 11.8 | 259,843 | 6.5 | $3,248,171$ | 81.7 |
| 4-year | $3,916,356$ | 466,730 | 11.9 | 257,599 | 6.6 | $3,192,027$ | 81.5 |
| 2-year | 47,524 | 798 | 1.7 | 2,198 | 4.6 | 44,528 | 93.7 |
| Less-than-2-year | 11,662 | 0 | 0.0 | 46 | 0.4 | 11,616 | 99.6 |
| Private for-profit | $2,175,031$ | 925,495 | 42.6 | 143,191 | 6.6 | $1,1,06,345$ | 50.9 |
| 4-year | $1,470,191$ | 901,601 | 61.3 | 121,684 | 8.3 | 446,906 | 30.4 |
| 2-year | 413,377 | 21,711 | 5.3 | 19,749 | 4.8 | 371,917 | 90.0 |
| Less-than-2-year | 291,463 | 2,183 | 0.7 | 1,758 | 0.6 | 287,522 | 98.6 |



Students not enrolled in any distance education Numbor Fercent
courses
Number Percent
Stu
Student level
Undergraduate'
Degree/certificate-seeking
Non-degree/certificate-seeking
Graduate


Less-than-2-year
2,183
en


To provide something in the way of a baseline for our District information, we begin by examining findings from a recent study of statewide online patterns among California Community Colleges

Figure 1. Online enrollment has soared


Total enrollment in online courses grew exceptional fast from 2002/03 through 2008/09 before it began to slow as the state began to enter a period of declining enrollments overall.

The participation in online courses, measured as online course
the percent of overall enrollments, has grown rather steadily from 2002/03 through 2011/12.

Figure 2. One of every nine student course enrollments is in an



California Community Colleges have experienced steady growth in online enrollments.

## Distance Education in California Community Colleges



Reflecting a similar pattern to the national trends, online enrollments in California Community Colleges is highest within the Information Technology and Business Management disciplines igure 4 a. Latinos are less likely than other students to take
nline courses

Statewide participation rates in online courses are increasing across multiple groups
St
_


Figure 4 a. Latinos are less likely than other students to take
online courses Figure 4 a. Latinos are less likely than other students to take
online courses igure 4 a. Latinos are less likely than other students to take
nline courses igure 4 a. Latinos are less likely than other students to take
nline courses igure 4 a. Latinos are less likely than other students to take
nline courses igure 4 a. Latinos are less likely than other students to take
nline courses igure 4 a. Latinos are less likely than other students to take
nline courses igure 4 a Latinos are less likely than other students to take
nline courses igure 4 a Latinos are less likely than other students to take
nline courses igure 4 a Latinos are less likely than other students to take
nline courses igure 4 a. Latinos are less likely than other students to take
nline courses igure 4 a. Latinos are less likely than other students to take
nline courses igure 4 a Latinos are less likely than other students to take
nline courses
$\qquad$

## 俋

 igure 4 a Latinos are less likely than other students to takenline courses




. igure 4 a . Latinos are less likely than other students to take
nline courses
${ }^{16} 5$ ( White igure 4 a . Latinos are less likely than other students to take
nline courses
${ }^{16} 5$ ( White

The PPIC report examine participation rates across two student age groups: those less than 25 years old (Collegeage students) and those 25 years and older.

Statewide the online participation rate of student 25 and older is rapidly outpace student under 25 while the growth in the participation rate for college-age students appears to be flattening.

Figure $4 c$. College-age students are less likely than older students to take online courses


Contra Costa Community College District

## Statewide performance gaps in online courses

 pathways to successThe PPIC reports that on average course success rates in online course are 14 percentage points lower than those in traditional face-to-face courses.

Statewide the performance gaps are largest for college-age students (less than 25 years old), Latino, African-American and Male students.

## 2013 CCCCO Distance Education Report

California Community Colleges<br>Percent distance education enrollments by zip code



## Summary of the Statewide Story

- Online enrollment is nearly 1 million; over half CCCs offer at least one completely online degree.
- Online enrollment continues to grow much faster than face-to-face enrollments.
- Online participation rates are growing in every student demographic category.
- Online offerings are most prevalent in Information technology and business management programs.
- Online course success rates are 14 percentage points lower than traditional courses overall with larger gaps experienced by younger students, African-Americans, Latinos and male students.
- The PPIC Report also observed that most online courses offered within the California Community College system appear to be relatively simple, consisting primarily of video lectures \& PowerPoint files.


## Summary of 4CD district data

- Classification of online course by percentage of online instruction
- Ten year online enrollment growth tends
- Participation rate trends by student demographic groups
- Online performance gaps and trends
- Student technology usages and preferences



## $4 C D$

Enrollments:
100\%
90\%
$80 \%$
70\%
60\%
50\%




10\%
0\%
$N=31,485$

## CCC

$N=4,039$

|  |  |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |

## DVC

$$
N=21,786
$$



## LMC

$$
N=5,660
$$

Contra Costa Community College District

## Ten year trend in 100\% online enrollments




Contra Costa
Community College District
pathways to success

## Percent growth in online enrollments face-to-face vs 100\% online, 4CD



Contra Costa

## Tend year trend in district online participation rates

## Percent of enrollments that are 100\% online



Contra Costa Community College District

## Overall online participation rates for the colleges

—CCC —DVC -LMC


## Participation rates for online course by student ethnicity



Contra Costa

## Participation rates for online course by student gender

—Female -Male


Contra Costa

## Participation rates for online course by student age

pathways to success
—College Age —Older Students


Contra Costa Community College District

## Participation rates using a more detailed view of student age

—A Less than 20 years old —B 20 to 24 years old
—C 25 to 39 years old

The 40+ age group is
experiencing the fastest
growth rate

Recent High School grads enroll in online courses to a
lesser degree than older students

## Summary of participation rates for 4CD online courses

## Percentage of courses enrolled that were online (2014/15)

| Student Ethnicity |  |
| :---: | :---: |
| African-American | 7.9 \% |
| Asian | 8.9 \% |
| Filipino | 8.1 \% |
| Hispanic | 6.7 \% |
| White | 10.4 \% |

Student Age Group


The cohorts exhibiting the highest participation rates are consistent with those found in the statewide report

- Between $2006 / 07$ and $2015 / 16$ online participation rates have increased for every student demographic category within ethnicity, age and gender

Contra Costa Community College District

## Participation in online course by discipline

Share of online enrollment within subject area (2015/16)


Examining the online share of enrollments by discipline for our District reveals the highest concentration in Travel Marketing with Computer Information Systems and several Business related subjects having more than half of their enrollments in online courses.

## Examining online performance gaps

What is the performance gap?

The standard measurement of the "online performance gap" is the percentage point difference in performance students experience in online courses compared to their experience in traditional courses, reported as a negative percentage.

## Ten year trend in online performance gap

(percentage point difference in course success rates, online minus face-to-face)

By 2015/16 the success rate gap shrunk by almost half to
6.5 percentage points

The course pass rate for online courses in 2006/07 was 12.7 percentage points -6.5\%

Contra Costa Community College District

## Ten year trend in online performance gap

(percentage point difference in course success rates, online minus face-to-face)

$$
\rightarrow \text { African American } \rightarrow \text { Asian } \rightarrow \text { Filipino } \rightarrow \text { Hispanic } \rightarrow \text { White }
$$

 rates for every student demographic

Gap in success rate of online courses vs traditional F2F courses


The District's overall performance gap of $5.1 \%$ is half that of the statewide average.*

Paralleling the state level findings, the District's African Americans and Hispanic populations experience the largest performance gaps.

The state report found that students under the age of 25 had a larger performance gap than those 25 and over.

Where we diverge from the state findings is in having our female students experience a larger gap in course success rates than males.

Contra Costa

Summary Contra Costa District online course enrollments activity and student performance

- Total enrollment in online courses is at 20,200 (approaching 9\% of total enrollments) and growing
- $22 \%$ of $4 C D$ students enroll in at least one online course, up from $15 \%$ ten years ago.
- Growth in 4CD online enrollments ( $100 \%$ online courses) have not kept pace with the state average.
- District online participation rates are growing in every student demographic category
- District online offerings are most prevalent in business management disciplines. Travel Marketing and CIS courses also have a large share of their enrollments in online courses.
- Consistent with statewide findings, 4CD's online course success rates are lower than traditional courses for every student demographic category.
- However, the gaps in success rates, across nearly all student populations, is shrinking and nearly all the gaps are smaller at our District than what has been observed statewide.*


## Technology Survey, Salient Findings

# Summary of findings from the ECAR Study of Undergraduate Students and Technology, 2013 

## Survey overview

The on-line survey was conducted in Spring of 2013. Email invitations were extended to all students at the three colleges. The response totals for the three colleges were:
Contra Costa College ..... 143
Diablo Valley College ..... 673
Los Medanos College ..... 206
District Total ..... 1,002

Nationwide the survey achieved 100,300 responses including 18,148 from students enrolled at community colleges. In this summary, unless otherwise noted, the national benchmark findings will refer to responses from community colleges only.

## Percent of students owning these devices:

| Technology | Contra Costa <br> College | Diablo Valley <br> College | Los Medanos <br> College | District <br> Average | National Community <br> College Benchmark |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Smartphone | $65.0 \%$ | $74.3 \%$ | $72.3 \%$ | $72.6 \%$ | $73.5 \%$ |
| Tablet | $33.6 \%$ | $33.7 \%$ | $29.6 \%$ | $32.9 \%$ | $32.8 \%$ |
| e-reader | $16.1 \%$ | $16.0 \%$ | $15.5 \%$ | $15.9 \%$ | $17.6 \%$ |
| Laptop | $71.3 \%$ | $86.3 \%$ | $79.1 \%$ | $82.8 \%$ | $84.3 \%$ |
| Desktop | $55.9 \%$ | $49.0 \%$ | $56.8 \%$ | $51.6 \%$ | 55.0 |

- Districtwide ownership rates parallel the national benchmark in all categories.
- Contra Costa College respondents show slightly lower ownership rates for both smartphones and laptops
- Contra Costa College respondents show slightly lower ownersh
relative to the rest of the District and the national benchmark.


## Noteworthy findings related to technology ownership.

[^0]都


ene

## Percent of student respondents saying they use the device for <br> Percent of student re academic purposes : <br> $\qquad$

| Technology | Contra Costa <br> College | Diablo Valley <br> College | Los Medanos <br> College | District <br> Average | National Community <br> College Benchmark |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Smartphone | $52.6 \%$ | $56.8 \%$ | $55.0 \%$ | $55.9 \%$ | $54.8 \%$ |
| Tablet | $35.5 \%$ | $34.3 \%$ | $30.6 \%$ | $33.7 \%$ | $34.4 \%$ |
| e-reader | $16.6 \%$ | $13.2 \%$ | $11.8 \%$ | $13.4 \%$ | $14.1 \%$ |
| Laptop | $85.0 \%$ | $89.3 \%$ | $84.8 \%$ | $87.7 \%$ | $91.3 \%$ |
| Desktop | $70.3 \%$ | $59.2 \%$ | $66.1 \%$ | $62.1 \%$ | $64.0 \%$ |

- Districtwide ownership rates closely parallel the national benchmark.
- Contra Costa respondents did report moderately higher usage of desktops. This is consistent with the slightly higher
- Contra Costa respondents did report moderately higher
ownership percentages reported on the previous table.


## Noteworthy findings related to technology usage.

ps. This is consistent with the slightly higher $\longrightarrow$ 2 $\qquad$

## Percent of student respondents indicating the degree to which <br> their instructors effectively use technology to support their academic success: <br> their instructors effectively use technology to support their <br> \begin{abstract}  \end{abstract}

| Frequency | Contra Costa <br> College | Diablo Valley <br> College | Los Medanos <br> College | District <br> Average | National Community <br> College Benchmark |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Most Instructors | $29.6 \%$ | $41.3 \%$ | $37.1 \%$ | $38.8 \%$ | $39.8 \%$ |
| All Instructors | $26.8 \%$ | $14.9 \%$ | $23.4 \%$ | $18.3 \%$ | $28.1 \%$ |
| Total | $56.4 \%$ | $56.2 \%$ | $60.5 \%$ | $\mathbf{5 7 . 1 \%}$ | 67.9 |

- There is a $10 \%$ gap on the ratings of overall effectiveness between the District and the national benchmark.
. $\qquad$
$\qquad$
$\square$
$\qquad$
$\qquad$
$\qquad$ $\square$
 (


## Percent of student respondents indicating how important it is to them that they receive better training at using available technologies to learn, <br> study or complete coursework: <br> $\longrightarrow$ <br> \author{ . 

}| Importance | Contra Costa <br> College | Diablo Valley <br> College | Los Medanos <br> College | District <br> Average | National Community <br> College Benchmark |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Very Important | $23.8 \%$ | $22.7 \%$ | $18.9 \%$ | $22.1 \%$ | $23.3 \%$ |
| Extremely <br> Important | $36.4 \%$ | $25.3 \%$ | $31.1 \%$ | $28.0 \%$ | $28.0 \%$ |
| Total | $\mathbf{6 0 . 2 \%}$ | $\mathbf{4 8 . 0 \%}$ | $\mathbf{5 0 . 0 \%}$ | $\mathbf{5 0 . 1 \%}$ | $\mathbf{5 1 . 3 \%}$ |

- Respondents from our District closely track those nationwide on this measure.
- Contra Costa respondents are more likely to view training as important to their academic success. In fact,
more than one out of three Contra Costa respondents evaluate the need as extremely important.
- Contra Costa respondents are more likely to view training as important to their academic success. In fact,
more than one out of three Contra Costa respondents evaluate the need as extremely important.

$\qquad$
$\qquad$ — technology training they most need.


## Percent of student respondents indicating in what ways they would prefer to receive more technical training (of those indicating that a training need was something they viewed as very or extremely important ):

| Technology | Contra Costa <br> College | Diablo Valley <br> College | Los Medanos <br> College | District <br> Average | National Community <br> College Benchmark |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Face-to-face <br> course training | $57.7 \%$ | $56.4 \%$ | $56.3 \%$ | $58.5 \%$ | $56.1 \%$ |
| On-line course <br> training | $53.6 \%$ | $42.6 \%$ | $33.7 \%$ | $42.7 \%$ | $42.8 \%$ |

- Respondents Districtwide closely track those nationwide.
- Los Medanos respondents prefer traditional face-to-face training nearly two to one over on-line training.


## Respondents indicating the importance each technology is to achieving academic success:

| Technology | Contra Costa <br> College | Diablo Valley <br> College | Los Medanos <br> College | District <br> Average | National Community <br> College Benchmark |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Library website | $38.3 \%$ | $19.5 \%$ | $24.9 \%$ | $23.3 \%$ | $25.1 \%$ |
| College website | $46.8 \%$ | $34.1 \%$ | $38.9 \%$ | $36.8 \%$ | $40.7 \%$ |
| Open-ed resources | $23.9 \%$ | $21.0 \%$ | $26.6 \%$ | $22.5 \%$ | $23.1 \%$ |
| Course Mgmt Sys. | $21.3 \%$ | $16.4 \%$ | $41.7 \%$ | $22.3 \%$ | $40.7 \%$ |

- Diablo Valley respondents report a lower rating in each resource area, lower than the other District colleges and lower than the national benchmark
- Consistent with their previous finding indicating a desire for more communications through course management systems, Los Medanos respondents also indicate that CMS technology is extremely important to their academic success, far more so than elsewhere in the District but on par with the national profile.


## Respondents identifying the course and classroom environments where they feel they tend to learn the most:

| Learning <br> Environment | Contra Costa <br> College | Diablo Valley <br> College | Los Medanos <br> College | District <br> Average | National Community <br> College Benchmark |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Course w/no On- <br> line components | $23.8 \%$ | $24.2 \%$ | $22.9 \%$ | $23.9 \%$ | $21.9 \%$ |
| Course w/ some <br> On-line <br> components | $44.8 \%$ | $55.1 \%$ | $53.7 \%$ | $53.4 \%$ | $54.2 \%$ |
| Completely On-line <br> course | $8.4 \%$ | $6.2 \%$ | $6.8 \%$ | $6.6 \%$ | $9.8 \%$ |
| No preference | $23.1 \%$ | $14.6 \%$ | $16.6 \%$ | $16.2 \%$ | $14.1 \%$ |

- Consistent with the national average, respondents in our District indicate that the Hybrid course format that includes both face-to-face and on-line components creates the best environment for their learning.
- It's worth noting that Contra Costa respondents did identify the Hybrid option to a lesser degree than either their sister colleges or the nation. <br> <br>  <br> <br>  <br> \section*{\section*{Percentage of respondents identifying that they have taken a <br> \section*{\section*{Percentage of respondents identifying that they have taken a completely on－line course in the past year：} completely on－line course in the past year：} <br> 都}

| Type／location of <br> on－line course | Contra Costa <br> College | Diablo Valley <br> College | Los Medanos <br> College | District <br> Average | National Community <br> College Benchmark |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Yes \＆offered by <br> their college | $27.1 \%$ | $38.5 \%$ | $38.2 \%$ | $36.9 \%$ | $50.8 \%$ |
| Yes \＆offered by a <br> different college | $10.0 \%$ | $6.3 \%$ | $4.9 \%$ | $6.5 \%$ | $5.4 \%$ |
| MOOC | $2.4 \%$ | $5.0 \%$ | $3.4 \%$ | $4.3 \%$ | $2.6 \%$ |

－Respondents from our District are far less likely than those nationwide to have reported that they took a completely on－
－Respondents from our District are far less likely than those nationwide to have reported that they took a completely
line course in the past year．And despite the rapid growth of on－line offerings nationwide，respondents were not too
－While it is a small percentage overall，Contra Costa respondents are nearly twice as likely to report that they enrolled in a
都俋
號

2
likely to enroll in either an online course offered by another college or a MOOC． fully on－line course at another college in the past year．

| Type／location of |
| :--- | :--- |
| on－line course | 

－

$$
1
$$

－

#  

．
E


## One closing comment

## Online education and long term student outcomes

Students taking online courses experience slightly higher levels of degree completion and transfer than students taking exclusively face-to-face courses.

This is an area needing further research, but it is theorized that online course taking tends to shorten the time to degree.

Any nagging questions or reactions before we segue to the breakout group discussion?

Contra Costa College District pathways to success

Breakout Group Discussions:

- What do you believe is the fundamental goal of offering distance education options to students?
- What do you believe will help students be more successful in distance education courses?
- What do we need to do to offer quality distance education courses/programs within the District?
- What support and infrastructure is needed to support student success and quality distance education offerings?
- If there were no limits on funding, what is your vision of what we want our distance education/online offerings to look like within the District?

Contra Costa

## Contra Costa Community College District

# It has been a pleasure 

Special thanks to the Contra Costa District research staff who demonstrated outstanding data collection and analysis in support of the findings included in this report

Francisco Balderas<br>Joy Hakola-Dardin

Marilyn Sargent

Rolando Valdez
Helen Wu

## Appendix

A comparison of participation rates and online performance gaps by applying the PPIC definition of online and face-to-face instruction

## Apples-to-apples comparison of participation rates

Online Participation Rates
Here is a comparisons of the participation rates between our District and the PPIC report when we apply the PPIC online definition as courses designated as being at least $80 \%$ online to our District student data.

|  | $\underline{4 C D}$ | $\underline{\text { PPIC }}$ |
| :--- | :--- | :--- |
| Overall | $10.8 \%$ | $10.7 \%$ |
| African-Americans | $10.0 \%$ | $12.8 \%$ |
| Asians | $11.5 \%$ | $10.5 \%$ |
| Filipino | $10.5 \%$ | n.a. |
| Hispanic | $8.3 \%$ | $8.1 \%$ |
| White | $12.5 \%$ | $13.1 \%$ |
| Less than 25 Yrs Old | $8.9 \%$ | $8.5 \%$ |
| $25+$ Yrs Old | $16.5 \%$ | $15.4 \%$ |
| Female | $12.5 \%$ | $12.6 \%$ |
| Male | $8.9 \%$ | $8.5 \%$ |

## Apples-to-apples comparison of online performance gaps

Here is a comparisons of the online performance gaps (the percentage point difference in course success rates that online courses display relative to face-to-face-course) between our District and the PPIC report when we apply the PPIC online definition as courses designated as being at least 80\% online and the tradition course benchmark as 0\% to $30 \%$ online to our District student data.

Percentage point difference in course success rates
(online minus face-to-face)

|  | LCD |  |
| :--- | :--- | :--- |
| Overall | $-6.5 \%$ | $\underline{\text { PPIC }}$ |
| African-Americans | $-15.3 \%$ | $-14.0 \%$ |
| Asians | $-6.1 \%$ | $-17.9 \%$ |
| Hispanic | $-10.5 \%$ | $-15.9 \%$ |
| White | $-7.5 \%$ | $-13.6 \%$ |
| Less than 25 Yrs Old | $-5.9 \%$ | $-14.5 \%$ |
| $25+$ Yrs Old | $-8.8 \%$ | $-10.2 \%$ |
| Female | $-8.2 \%$ | $-13.6 \%$ |
| Male | $-4.9 \%$ | $-14.7 \%$ |

## Summary of findings from the ECAR Study of Undergraduate Students and Technology, 2013

This document focused on the most salient findings from the ECAR study. We encourage you to review all the survey findings included the full ECAR data report.

A copy of this presentation and the full ECAR report is available on the District Research web page at:
http://www.4cd.edu/research/default.aspx.

## 2013 CCCCO Distance Education Report

Distance Education and Traditional Education Course Sessions 2005-12

| Fiscal Years | Distance Education | Traditional Education | Percentage |
| :--- | :--- | :--- | :--- |
| $\mathbf{2 0 0 5 - 0 6}$ | $\mathbf{2 1 , 4 0 7}$ | 456,644 | $4.69 \%$ |
| $\mathbf{2 0 0 6 - 0 7}$ | $\mathbf{2 6 , 1 2 1}$ | 465,680 | $5.61 \%$ |
| $\mathbf{2 0 0 7 - 0 8}$ | 32,380 | 486,866 | $6.65 \%$ |
| $\mathbf{2 0 0 8 - 0 9}$ | 39,178 | 482,756 | $8.12 \%$ |
| $\mathbf{2 0 0 9 - 1 0}$ | 39,964 | 440,933 | $9.06 \%$ |
| $\mathbf{2 0 1 0 - 1 1}$ | 43,561 | 419,466 | $10.38 \%$ |
| $\mathbf{2 0 1 1 - 1 2}$ | 41,246 | 391,191 | $10.54 \%$ |

Total Student Headcount in All Distance Education and Traditional Education Course Sessions (Unduplicated headcount)

| Fiscal Year | Distance <br> Education | Traditional <br> Education | Total | Percent of <br> Total Headcount |
| :--- | :--- | :--- | :--- | :--- |
| $2005-06$ | 328,372 | $2,630,207$ | $2,958,579$ | $12.48 \%$ |
| $2006-07$ | 392,355 | $2,694,149$ | $3,086,504$ | $14.56 \%$ |
| $2007-08$ | 483,884 | $2,810,572$ | $3,294,456$ | $17.22 \%$ |
| $2008-09$ | 611,689 | $2,923,137$ | $3,534,826$ | $20.93 \%$ |
| $2009-10$ | 649,518 | $2,758,831$ | $3,408,349$ | $23.54 \%$ |
| $2010-11$ | 675,760 | $2,570,688$ | $3,246,448$ | $26.29 \%$ |
| $2011-12$ | 643,255 | $2,388,913$ | $3,032,168$ | $26.93 \%$ |

## 2013 CCCCO Distance Education Report

Contra Coste
Community College Distric pathways to success

Enrollment trends for students taking exclusively on-line courses and those taking online course(s) in combination with traditional face-to-face courses
$\rightarrow$ Online Only $\quad \rightarrow$ Online \& F2F


Contra Costa

The course success rates for various hybrid model of instruction (by degree of online instruction)


Contra Costa
Community College District

Taking at Least One 100\% Online Course


Contra Costa
Community College District
pathways to success

## Percent growth in online enrollments face-to-face vs $100 \%$ online, CA


[^0]:    antphones and laptops

