Educational Systems & Intersegmental Pathways Task Force

Funded by: CCCCO Innovation Award and Bakersfield College Office of Student Success and Equity
Hosted by: Bakersfield College
February 24, 2020
CCC Chancellor’s Office
Sacramento, CA
Wi-Fi Information

Network ID: Foundation Guest
Username: guest
Password: Foundation2020
Welcome

Sonya Christian
President
Bakersfield College
November 2018 Group Photo
September 2019 Group Photo
Cradle-to-Career Data System Decision Process

Sub-Committees
- Provide recommendations to the Workgroup
- Include both partner entities and stakeholders

Advisory Groups
- Provide recommendations to the Workgroup
- Include stakeholders

Workgroup
- Provide recommendations to the Governor’s Office
- Includes partner entities

Governor’s Office
- Provides recommendations to the Legislature

Data Tool
- Developed based on legislation
Phase One Priorities

Governance Structure

P20W Dataset
- Public Dashboards

Research Approval Process
- Questions Generated by Others
- Research Partnerships Initiated by the Data System

Tools for Individuals and Practitioners
- To Be Determined
CSU Program Mapper Prototype Development

Faust Gorham
Assistant VP Administrative and Information Technology Services
CSU Bakersfield

Ben Perlado
Director of Admissions & Records
CSU Bakersfield

Lisa Zuzarte
Director of Academic Operations
CSU Bakersfield

Craig Hayward
Dean of Institutional Effectiveness
Bakersfield College
AN INTERSEGMENTAL PROGRAM PATHWAY MAPPER FOR THE CSU & CCC

Vikash Lakhani, Lisa Zuzarte, Faust Gorham, Craig Hayward
ESIP Task Force
2/24/20
PROJECT OBJECTIVES

• Extend the program pathways mapper capabilities to include maps for Bachelor’s degrees
• Create a seamless visual pathway from Bakersfield College to CSUB for ADT students
• Complete an intuitive end-user interface for the program mapper’s Data Cleanup Tool.
• Funded by the College Futures Foundation and powered by an intersegmental BC/CSUB team working with Concentric Sky
INTERFACE WORK

• Flow of maps changed from horizontal to vertical, allowing improved flow for longer programs (e.g., four years/eight semesters).

• Connecting students who are exploring transfer pathways in a visually seamless way.
  • Enhancing interactive options (e.g., “Pathway from”)
College Details

Customize college specific content and settings and manage user access.

General  About  Users

Settings

CURRICULUM INFORMATION

Online Catalog Link
https://www.csub.edu/catalog/

General Advising Link
https://www.csub.edu/sse/sseadvisingcenter/Advising/index.html

Creating a new map starts with
2 years

Associate's Degree Naming Convention
Associate in Arts or Science

Bachelor's Degree Naming Convention
Bachelor of Arts or Science

Adding a year to a map adds
3 terms

Theme

Term 1 default title
Fall

Term 2 default title
Spring

Term 3 default title
Summer

Change Logo
### Programs

**Total Maps:** 215  
**Public Maps:** 204  
**Private Maps:** 9  
**Orphan Maps:** 2 (Fix)

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Award</th>
<th>Program Code</th>
<th>Public / Total</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
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<td>B.A. Degree</td>
<td>36703</td>
<td>1/1</td>
<td>View</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>B.S. Degree</td>
<td>01997</td>
<td>1/1</td>
<td>View</td>
</tr>
<tr>
<td>Industrial Technology</td>
<td>B.S. Degree</td>
<td>32797</td>
<td>2/2</td>
<td>View</td>
</tr>
<tr>
<td>Information Technology</td>
<td>B.S. Degree</td>
<td>02004</td>
<td>1/1</td>
<td>View</td>
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<tr>
<td>International Business</td>
<td>B.A. Degree</td>
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<td>1/1</td>
<td>View</td>
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<td>International Studies</td>
<td>B.A. Degree</td>
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<td>1/1</td>
<td>View</td>
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<td>B.S. Degree</td>
<td>35826</td>
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<td>Linked Maps</td>
<td>Time to Complete</td>
<td>Map Status</td>
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<tr>
<td>----------------------</td>
<td>------------------</td>
<td>----------------------</td>
<td>------------------</td>
<td>------------</td>
</tr>
<tr>
<td>to Degree</td>
<td>Allied Health</td>
<td></td>
<td>4 years</td>
<td>PUBLIC</td>
</tr>
<tr>
<td>to Degree</td>
<td>Applied Exercise Science</td>
<td></td>
<td>4 years</td>
<td>PUBLIC</td>
</tr>
<tr>
<td>to Degree</td>
<td>Physical Activity Leadership</td>
<td></td>
<td>4 years</td>
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<td>to Degree</td>
<td>Applied Exercise Science</td>
<td></td>
<td>4 years</td>
<td>PUBLIC</td>
</tr>
<tr>
<td>from General Associates</td>
<td>Allied Health</td>
<td></td>
<td>2 years</td>
<td>PUBLIC</td>
</tr>
<tr>
<td>from Associates Degree?</td>
<td>Applied Exercise Science</td>
<td></td>
<td>2 years</td>
<td>PUBLIC</td>
</tr>
<tr>
<td>from Community College</td>
<td>Physical Activity Leadership</td>
<td></td>
<td>2 years</td>
<td>PUBLIC</td>
</tr>
</tbody>
</table>

*from Bakersfield College A.A. for Transfer *MISSING YOUR MAP

2 years
PRIVATE
Fix

*One or more colleges’ programs have been confirmed as transferring into the current program. But no map has been made yet for your part of their pathway.*
# Kinesiology Maps

**B.S. Degree**

**Program Advising Link**
Set this link to where you would like students to go for more information.

---

**Fix Missing Map**

*for transfer from Bakersfield College*

Would you like to create a new map, copy a pre-existing map, or link to an existing map?

- [Copy Existing Map](#)
- [Create New Map](#)
- [Link to Existing Map](#)

---

**TOTAL MAPS: 8**

**TRANSFER MAPS: 4**

**MISSING TRANSFER MAPS: 1**

<table>
<thead>
<tr>
<th>Pathway</th>
<th>With Emphasis in</th>
<th>Time to Complete</th>
<th>Map Status</th>
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</tr>
</thead>
<tbody>
<tr>
<td>to Degree</td>
<td>Allied Health</td>
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<tr>
<td>to Degree</td>
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<td>4 years</td>
<td>PUBLIC</td>
<td>Edit</td>
</tr>
<tr>
<td>to Degree</td>
<td>Applied Exercise Science</td>
<td>4 years</td>
<td>PUBLIC</td>
<td>Edit</td>
</tr>
<tr>
<td>from CC</td>
<td>Allied Health</td>
<td>2 years</td>
<td>PUBLIC</td>
<td>Edit</td>
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<tr>
<td>from CC</td>
<td>Applied Exercise Science</td>
<td>2 years</td>
<td>PUBLIC</td>
<td>Edit</td>
</tr>
</tbody>
</table>
# Kinesiology Maps

**B.S. Degree**

**Program Advising Link**

Set this link to where you would like students to go to contact an advisor for this program.

**Total Maps:** 7  
**Transfer Maps:** 3  
**Missing Transfer Maps:** 0

<table>
<thead>
<tr>
<th>Pathway</th>
<th>With Emphasis in</th>
<th>Linked Years</th>
<th>Time to Complete</th>
<th>Map Status</th>
<th>Action</th>
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<td>Allied Health</td>
<td></td>
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<td>Physical Activity Leadership</td>
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<td>PUBLIC</td>
<td>Edit</td>
</tr>
</tbody>
</table>

Add Map
# Kinesiology Maps

**B.S. Degree**

**Program Advising Link**  
Set this link to where you would like students to go to to contact an advisor for this program.

No link is currently saved. Using the General Advising Link.

## TOTAL MAPS: 7
## TRANSFER MAPS: 3
## MISSING TRANSFER MAPS: 0

<table>
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<th>Pathway</th>
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</tbody>
</table>
Kinesiology

Associate in Arts for Transfer

60 UNITS

This program map represents one possible pathway through the program. Please see a counselor or advisor to create an education plan that is customized to meet your needs. Map is for reference only for the 2019-2020 catalog year.

Catalog Year

2019-2020

Pathway

with Transfer to Bachelor of Arts at CSU Bakersfield

Map View List View

Program details have updated.

2019 1st Term

PHED B42 Introduction to Kinesiology

13.0 UNITS

Physical Education - Movement Based Course

1.0 Units

ENGL B1A Expository Composition

3.0 Units

Oral Communication

3.0 Units

HLED B1 Principles of Health Education

3.0 Units
Bachelor of Arts

The Kinesiology major provides a broad knowledge base in human structural features and maturation. In addition to a strong knowledge base, the Department strives to implement real-world applications and build a strong sense of community. Students can choose a concentration in Applied Exercise Science, Physical Activity Leadership, or Allied Health.... More

Program Learning Outcomes

1. Analyze the history, research, and current information in Kinesiology and their current applications
   Assessment: Written exams - Oral presentations - Written quizzes - Physical skills testing - Group presentations

2. Demonstrate and explain the basic anatomy and physiological principles at work in both sport performance and general fitness activities
   Assessment: Written exams - Oral presentations - Written quizzes

3. Demonstrate an understanding of the value and significance of physical activity for human development, human interactions and quality of life.
   Assessment: Written exams - Oral presentations - Written quizzes
This map has been revised and is for reference only. Please use the revised map instead.
Kinesiology

Associate in Arts for Transfer

60 UNITS

This program map represents one possible pathway through the program. Please see a counselor or advisor to create an education plan that is customized to meet your needs. Map is for reference only for the 2019-2020 catalog year.

Catalog Year | Pathway
--- | ---
2019-2020 | with Transfer to Bachelor of Arts at CSU Bakersfield

The map for the Catalog year you selected has been revised and is for reference only. Please use the revised 2019-2020 map or the Current Program Map.
<table>
<thead>
<tr>
<th>Units</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<th>Course Title</th>
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<td>2021</td>
<td>CORE</td>
<td>NUTR B10 Introduction to Nutrition Sciences</td>
<td>3.0</td>
<td>CORE</td>
<td>POLLS B1 American Government: National, State and</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>GEN</td>
<td>CHEM B1A General Chemistry I</td>
<td>5.0</td>
<td>GEN</td>
<td>Arts, Literature, Philosophy, and Foreign Language</td>
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<tr>
<td></td>
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<td></td>
<td>Choose a course from Area C.</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>GEN</td>
<td>Social Sciences Choose a course from Area D.</td>
<td>3.0</td>
<td></td>
<td></td>
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</table>

CSU: The California State University

Transfer FROM Bakersfield College

No transfer map is available for your selection.

Looking to attend California State University? Check out CSU transfer programs or use Assist to find information about CSU transfer agreements.
DATA WORK

- Data elements somewhat different between CCC & CSU
- Need to enhance handling of prerequisites and corequisites
- Data sources
  - CCC has COCI whereas CSU has [name of CSU program database]
  - CCC → Curriculum data is exported from a curriculum inventory, handled by curriculum specialists
  - CSU → Curriculum data is exported directly from Peoplesoft, requiring IT involvement
- Other challenges:
  - Accuracy of curricular proposals
  - Collaborations between academic departments and administrative offices
  - Meeting curricular deadlines to ensure timely publication of catalog and academic roadmaps
  - Adopting an annual catalog to prevent frequent changes to a published catalog for a specific catalog year.
  - Staffing resources
THANK YOU!
CSU System
Program Mapping Project

Rob Shorette
Director of Special Initiatives
CSU Chancellor’s Office

Chenoa Woods
Assistant Director, Research & Programs
CSU Chancellor’s Office

Jennifer Johnson
Special Consultant, CSU Chancellor’s Office
Bakersfield College
California State University – California Community College Transfer Pathway Mapping Project

C. Rob Shorette II, Ph.D. & Chenoa S. Woods, Ph.D.

Educational Systems Intersegmental Pathways Meeting
Sacramento, California
February 24, 2020
Graduation Initiative 2025

Closing equity gaps and improving graduation rates

First-Time Students

- 4-Year Goal: 40%
- 6-Year Goal: 70%
- 2015: 19%
- 2019: 28%
- 2025 Goal: 70%

Transfer Students

- 2-Year Goal: 45%
- 4-Year Goal: 65%
- 2015: 31%
- 2019: 41%
- 2025 Goal: 85%
Graduation Initiative 2025

Closing equity gaps and improving graduation rates
# Associate Degree for Transfer (ADT)

## Evidence of student success

### California Community College Transfer Persistence Rates, Fall 2017 Within 2 Years

<table>
<thead>
<tr>
<th>Category</th>
<th>Graduated</th>
<th>Enrolled</th>
<th>Not Graduated, Not Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All CCC Transfers</strong></td>
<td>40.6%</td>
<td>43.0%</td>
<td>16.4%</td>
</tr>
<tr>
<td>ADT Transfer on a Similar Pathway</td>
<td>53.5%</td>
<td>32.2%</td>
<td>14.3%</td>
</tr>
<tr>
<td>ADT Transfer Not on a Similar Pathway</td>
<td>41.7%</td>
<td>41.1%</td>
<td>17.2%</td>
</tr>
<tr>
<td>Transfer with AA/AS</td>
<td>36.7%</td>
<td>44.9%</td>
<td>18.4%</td>
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<tr>
<td>Transfer with No Degree</td>
<td>36.8%</td>
<td>46.9%</td>
<td>16.3%</td>
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</tbody>
</table>
## Associate Degree for Transfer (ADT)

### Evidence of student success

<table>
<thead>
<tr>
<th>Category</th>
<th>Graduated</th>
<th>Enrolled</th>
<th>Not Graduated, Not Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ALL CCC TRANSFERS</strong></td>
<td>70.1%</td>
<td>12.5%</td>
<td>17.4%</td>
</tr>
<tr>
<td><strong>ADT TRANSFER ON A SIMILAR PATHWAY</strong></td>
<td>77.8%</td>
<td>7.7%</td>
<td>14.5%</td>
</tr>
<tr>
<td><strong>ADT TRANSFER NOT ON A SIMILAR PATHWAY</strong></td>
<td>72.9%</td>
<td>10.3%</td>
<td>16.8%</td>
</tr>
<tr>
<td><strong>TRANSFER WITH AA/AS</strong></td>
<td>65.9%</td>
<td>14.1%</td>
<td>20.0%</td>
</tr>
<tr>
<td><strong>TRANSFER WITH NO DEGREE</strong></td>
<td>58.2%</td>
<td>14.0%</td>
<td>17.8%</td>
</tr>
</tbody>
</table>
Associate Degree for Transfer (ADT)

Progress toward being the “preferred pathway”

Fall 2019, New Undergraduate Transfers from California Community Colleges or other Institutions, http://asd.calstate.edu/dashboard/enrollment-live.html
Current state of CSU transfer pathways

Spoiler alert: It is still confusing.
Articulation Agreement by Major

Business Administration

WHY STUDY BUSINESS ADMINISTRATION?

Earning a degree in Business Administration is an investment in your future. In today's increasingly complex global economy, the need for well-trained business professionals is greater than ever. Having a business degree puts you one step ahead of other job seekers. As a business major, you'll also acquire valuable communication, critical thinking, team and analytical skills that will help you succeed in any career.

There are countless career opportunities in both the private and public sectors for Business Administration graduates. The B.S. degree is excellent preparation for careers in a wide range of fields.

Please click here for more information about Business Administration at CSU or visit the CSU catalog.

Please note: BA 2010 is not required for ACCOUNTING majors who have completed ACCT 2310 or its equivalents.

LOWER DIVISION MAJOR REQUIREMENTS

All courses in this section are required.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
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<td>Perspectives in Business (3.00)</td>
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<tr>
<td>BA 2109</td>
<td>Legal Environment of Domestic and International Business (3.00)</td>
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<tr>
<td>BA 2208</td>
<td>Quantitative Tools for Business and Economics (4.00)</td>
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<tr>
<td>BA 2209</td>
<td>Introduction to Business Professionals (1.00)</td>
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<tr>
<td>ACCT 2010</td>
<td>Fundamental Accounting (4.00)</td>
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<tr>
<td>ECON 2050</td>
<td>Principles of Micro-Economics (3.00)</td>
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<tr>
<td>ECON 2060</td>
<td>Principles of Macroeconomics (3.00)</td>
<td></td>
</tr>
<tr>
<td>MATH 2300</td>
<td>Introduction to Statistical Calculations and Methods (3.00)</td>
<td></td>
</tr>
</tbody>
</table>

CSU Transfer Degrees

Associate Degrees for Transfer (ADTs)

The California State University system of 23 campuses is designed to facilitate transfer to a CSU with a BS degree. To do this, the CSU campuses have developed pre-transfer agreements that specify the courses needed to ensure that students transferring to a CSU receive direct credit for work done at the local community college.

The Associate Degree for Transfer (ADT) is a formal agreement between the California State University system and the community college that specifies the courses needed to ensure that students transferring to a CSU receive direct credit for work done at the community college.

Community College

AAASSIST

Notice Bank ASSIST

Transfer Information

Academic Year

2019-2020

Institution

California State University, Bakersfield

Bachelor's Degree

Business Administration

Agreements with Other Institutions to California State University, Bakersfield

View Agreements

2019-2020

To California State University, Bakersfield: Free ACADEMIC YEAR 2019-2020

Agreement by Major

Business Administration

View Agreement

Agriculture

Agribusiness

Anthropology

Art

Biology

Business Administration

Chemistry

Child, Adolescent, and Family Studies

ART

ART

Accounting

American Indian Studies

American Sign Language

American Sign Language

Anthropology

Art

Biology

Business Administration

Chemistry

Child, Adolescent, and Family Studies

http://www.csudegreeplan.com/
Removing barriers to student success

Program Pathway Mapping to CSUs

Timeline of the Pilot Project
- March 2020 – December 2020

Goals of the Pilot Project
- Strengthen CCC and CSU partnerships through program pathway mapping
- Refine and clarify Associate Degree for Transfer pathways
- Produce the digital mapping tool for at least 10 ADT pathways per partnership (ambitious goal would be all ADT pathways)
- Increase the percentage of students transferring with an ADT and remaining on a similar pathway
Five campus partnerships

Chaffey College and California State University, San Bernardino

Compton College and California State University, Dominguez Hills

Long Beach City College and California State University, Long Beach

Los Medanos College and California State University, East Bay

Palomar College and California State University, San Marcos
Five campus partnerships

Total enrollment of campuses = 191,717
Total transfers to CSUs = 3,459*
Transfer student demographics = 50% Latinx, 22% white, 8% Asian, 6% Black
Transfers with ADT = 35% - 47%

Transfers between partner = 1,939*
CCC and CSUs
Transfer student demographics = 49% Latinx, 24% white, 8% Asian, 4% Black
Transfers with ADT = 20% - 57%

Fall 2019, New Undergraduate Transfers from California Community Colleges or other Institutions, http://asd.calstate.edu/dashboard/enrollment-live.html
Fall 2019, Annual/Term Student Count Report, https://datamart.cccco.edu/Students/Student_Term_Annual_Count.aspx
* No data for Compton College
Contact

• C. Rob Shorette II
  • rshorette@calstate.edu
  • (562) 951-4241

• Chenoa S. Woods
  • cswoods@calstate.edu
  • (562) 951-4152
Program Finder Updates

Steve Glyer
Workforce Development Consultant
Orange County Department of Education

Kathleen Reiland
Dean of Career and Technical Education
Cypress College

Amy Kaufman
K14 Career Pathways Specialist
LAOC Regional Consortium
What is Program Finder?

• A simple, yet powerful tool designed to connect high school students with career education programs offered at local community colleges in Orange County.

• Enables students and their parents to browse all industry sectors and find programs that match their interests.

• Provides community colleges with high school pathway information for outreach and collaboration.
The **Power of Program Finder**

- **IDENTIFY** students who are already in the Orange County Career Education pipeline.
- **EVALUATE** program enrollment trends and cultivate communication with K-12 prospects.
- **CONNECT** community college CTE faculty with their high school counterparts for collaboration.
- **CUSTOMIZE** your college’s career education program marketing plan!
**Example**

**Arts, Media, and Entertainment**

**Commercial Art**
Design and execute layouts and illustrations for advertising displays and instructional manuals.

- **4 Colleges** have this program
- **15 High School Districts** have this program

**Anaheim Union High School District**
8 High Schools
- center on map

**Tustin Unified School District**
3 High Schools
- center on map

**Garden Grove Unified School District**
6 High Schools
- center on map
Student-Owned Learning and the Future of Transcripts

Bill Moseley
Dean of Academic Technology
Bakersfield College
Institution-Owned.

Not Portable.

Not (really) meaningful.

Not (at all) Flexible.

Boring.
Open Badges

There's data inside!

- badge name
- badge URL (description)
- badge criteria
- badge image
- issuer
- issue date
- recipient
- tags
- alignment (standards)
- expiration date
- evidence URL
SLO #1
Upon successful completion of the course, the student will be able to demonstrate understanding of the fundamentals of sound including waveforms, frequency, amplitude, and harmonics.

• How was it assessed?
• Who assessed it?
• When was it assessed?
• What institution issued the badge?
• Future: CID or Model...
• Student-owned
• Interactive
• Highly detailed
• Flexible
• Transparent
Outdated, Disconnected Model
Student Learning at Center

Grades and Assessment Tightly Coupled

Student Learning Recognizes prior learning

Modern, Connected, Authentic Learning

Instructional Activities Scaffold Learning

Assessment the Natural Culmination Of Learning

Grades
Assessments

Projects
Interactions
Assignments
Updates from the Chancellor’s Office

Marty Alvarado
Executive Vice Chancellor
Educational Services
CCC Chancellor’s Office

Barney Gomez
Vice Chancellor for Digital Innovation and Infrastructure
CCC Chancellor’s Office
Technology and Data Tools Supporting the Vision and Guided Pathways

January 2020
Today’s Presentation

• The technology roadmap foundation
• The roadmap for technology & student progress
• The statewide technology path forward
Today’s Presentation

• The technology roadmap foundation
• The roadmap for technology & student progress
• The statewide technology path forward
Integration to Improve Student Success

With the *Vision for Success* as an organizing framework, we have shifted to a student-centric mindset in which **student needs drive technology-based decisions**.

To ensure students feel supported during their journey to and through the California Community Colleges, the Chancellor’s Office seeks to **reduce friction points for students** by streamlining technology investments at the system level and creating a more integrated user experience overall.
Vision Goals

1. Increase credential obtainment by 20%
2. Increase transfer by 35% to UC and CSU
3. Decrease unit obtainment for a degree
4. Increase employment for CE students
5. Reduce and erase equity gaps
6. Reduce regional gaps

Commitments

1. Focus on students’ goals
2. Design with the students’ experience in mind
3. High expectations and high support
4. Foster use of data and evidence
5. Own student performance
6. Thoughtful innovation and action
7. Cross-system partnership
Prioritization of Technology Investments

By optimizing resources and investing in more strategic, cohesive technology efforts at the system level, the Chancellor’s Office can improve several outcomes, including:

1. Creating a more seamless student journey and positively impacting progress through enhanced tool integration;
2. Increased capacity at the local level through technology and data that enables better utilization of limited resources; and
3. Scaling of Guided Pathways practices and achievement of goals and commitments as outlined in the Vision for Success.
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Chancellor’s Office
Investments in Technology

Historically, a framework like the *Vision for Success* was not in place to guide technology investment strategy.

Overlapping tools and infrastructure contributed to disjointed practices across institutions, leading to *unintentional barriers to student access and success*. 
State of Systemwide Technology

Technology touches all 2.1 million California community college students whether directly through student-facing tools or via indirect system infrastructure that supports each step of their educational journeys.

Local colleges are increasingly using technology to support student progress.
STUDENT DIGITAL TOUCHPOINTS

THE STUDENT JOURNEY

DISCOVER

CCCO.edu (Find a College)
Campaigns
  ASSOCIATE DEGREE FOR TRANSFER
  CAREER EDUCATION
  I CAN AFFORD COLLEGE
  LOCAL COLLEGE OUTREACH

California College
Guidance Initiative
Here to Career
Program Mapper
Salary Surfer

APPLY

ENROLL

ATTEND

LOCAL COLLEGE/DISTRICT ARCHITECTURE

TRANSFER/CERTIFICATE

TRANSFER TO UNIVERSITY

CAREER
PROGRAM MAPPER

- An interactive, pathway-based visualization of the traditional course catalog alongside easy-to-understand career data
- Pioneered and piloted at Bakersfield College, currently being implemented on 27 campuses
- Facilitates a deeper understanding of the potential options a student might have as they explore the programs offered at a college by allowing users to select a program of study, gain insight into estimated length of time to completion, and explore information on occupations and careers commonly associated with the chosen path
CHANCELLOR'S OFFICE CURRICULUM INVENTORY (COCI)

- COCI serves as the central database for all California Community Colleges course information
- Used by colleges to submit new or notably changed courses and programs for approval
- Leverages Course Control identifying and tracking information
The Chancellor’s Office aims to make metrics cohesive, simple and available to the colleges to ensure an ability to measure student progress.

Current existing tools include data dashboards (e.g. Student Success Metrics), incentive-related measurements (Student Centered Funding Formula), program-specific tools (Guided Pathways dashboard), and query tools (Datamart).

Increased need to staff a research team to plan for and realize larger-scale and longer-term modernizations across the system.
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Next Steps…

Accelerating this next evolution of technology across the California Community Colleges requires:

1. A strategic process for investments, budgeting and efficacy; and
2. An established life cycle and review process for all existing technology tools or platforms.
3. Increased staffing and support funding at the Chancellor’s Office;
Questions?
A Common Data and Analysis Platform

Gary Moser
CIO, Information Technology
KCCD

Craig Hayward
Dean of Institutional Effectiveness
Bakersfield College
A Common Data Analysis Platform for the CCC
(or A Data Warehouse for all Reasons)

A review of where we are and a look forward to where we are going
Bakersfield College’s Office of Institutional Effectiveness (OIE) logged 419 trackable projects in 2018-19.

Given the types of requests we receive (and the deadlines), we have a good idea of what people want in terms of data and research and therefore what type of data systems people *think* we have...
The data system people *think* we have
The data system we *actually* have
The data system I’d be happy with
Building a Better Warehouse

- Research Data Warehouse (RDW) project funded by an Innovation Award from the CCCCCO
  - $500k project
- Not just a solution for the three colleges of Kern Community College District
- Developing a scalable solution for the benefit of the system
Phase I of the MIS+ RDW

- All MIS tables including First table
- **Plus:**
  - Student Success, including velocity score (Yes)
  - CalWORKs (Yes)
  - COCI files (Yes)
  - Survey data (e.g., CTEOS, CCSSE - Yes)
  - Placement data (Self-reported high school data – Yes; CCGI – Not there yet)
  - Student Banner data: Bio/demo (Partial), Student Records (Partial), Financial Aid (Partial)
An MIS Armature for the RDW
Phase II of the RDW (current phase)

- More Banner data:
  - Detailed Student Records & Financial Aid data,
  - HR
  - Finance
- Develop a “Killer” reporting portal
  - SCFF calculator
  - Transfer/National Student Clearinghouse report
  - HR tool
  - Financial Aid tool
- Other data integrations for placement (e.g., MMPS, CCGI)
- Identify scaling partners
Phase III of the RDW

- Additional reporting portals
- Tuning of RDW, incremental loads
- Documentation
- Data governance
- Working with partners to scale
System Benefits of the RDW

- Common Input/Output interface for CCCCCO Data Warehouse/Data Lake
  - Improved quality of MIS data
  - Auditable MIS data trails
  - Automated I/O of MIS files
System Benefits of the RDW

Proposed Placement Recommendation Logic (version 3)

- SSID Match with CDE
- CCCApply/MyPath Process Steps
- Multiple Measures Placement Step
- Collect Self-Reported data
- Application and Placement Data
- Math/English Placement Recommendation Plus all available data
- Use SSID Match
- Does record exist in CCGI
- Does record exist in CalPASS
- Does record exist in CDE (real-time API)
- Add Self-Reported data
- If CDE interface is batch

District RDW (shared I/O interface)
Local Benefits of the Data Warehouse

- Data coach support – on-demand contact, progression & demographic data by metamajor
  - Systems and infrastructure development
  - Reporting through Cognos & Tableau
  - Professional development

- Financial aid and all MIS reporting available for QA
  - Data clean-up and systems development (e.g., performance-based funding)
  - Reporting through Cognos & Tableau

- Onboarding – Assessment and placement system enhancements
  - Systems and infrastructure development
  - Reporting to facilitate development of ASEP and CSEP leading to enrollment
We continue to enhance & innovate!
An Era of Uncertainty

- Technology currency and change
- Enrollment Fluctuations
- Equity for ALL our students
- Funding Challenges – State\Local
- The Shift and Drift from Filled Seats to Outcomes
- Security concerns
- MOST importantly how can we provide a successful journey for our students!
4CIS
A Common Data Solution

- System wide technical equity for colleges of all sizes
- Talent acquisition\retention challenges for staff with these skills in a competitive market
- Speed to roll out 1 app used by all vice recreating at every location
- Data reporting quickly a system wide single source of information rather the 73 different sources, configurations, maintenance, etc.
- Move current staff to college project needs - more #1s done
- Power pricing leverage as multiple districts can purchase
- Scale for efficiency- single system vice 73 districts to address this issue.
- HELP STUDENTS!
Many IT Challenges Threaten the Success of our Students

Gained Effectiveness and Efficiency

- Security
  - Security is transferred and expertise and updates happen more quickly

- Business continuity and disaster recovery
  - 4CIS now can rely on 24x7 system availability. In the case of an event, Ellucian provides redundant application services; 4CIS avoids any "single points of failure."

- Process transformation
  - Less time is focused on "keeping the lights on" as 4CIS identifies ways to eliminate recurring tasks and focus on strategic ones

- Strategy momentum
  - An increasing number of projects are completed ahead of schedule

- Energy and sustainability
  - As on-prem ERP hardware is decommissioned, there will be energy savings from electricity and cooling demands. Further, AWS has a strong commitment to clean energy.

- Talent engagement and retention
  - 4CIS employees can be deployed to higher-value projects with the elimination of transactional tasks
Creating A Framework

- Building for District and System Successes
  - Addressing technical integration constraints
  - Common data to flow collectively vice as separate paths
  - Transforming from “Keep the Lights On” to Illuminating New Paths
  - A data warehouse solution to provide a source of truth
    - With an ERP these two solutions together will provide the way.
The Proof Of Concept

- 4CIS
  - A Pathway to a State ERP
  - A single solution for all
  - 1 Data source for the CCC’s

- RDW
  - Near real time data
  - A design to support the need
  - Streamlined data flow between systems
    - K12 > CCC > CSU\UC
Teamwork

- A vision for the future
  - Horizontality
    - ERP
    - Data Warehouse
    - IAM\SSO
    - Applications across the spectrum
  - Vertically
    - K-12
    - CCC
    - CSU and US
Program Mapper
Data Clean Up Tool

Steve Middleton
Project Manager
Concentric Sky

Craig Hayward
Dean of Institutional Effectiveness
Bakersfield College
Links

• programmap.bakersfieldcollege.edu
• authoring.programmapper.ws
• staging.dct.programmapper.ws
What’s Next?
Educational Systems & Intersegmental Pathways Task Force

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