

 1

 2

 3
 AB928 Associate Degree for Transfer Intersegmental Implementation Committee

 4
 Draft: Final Report

 5
 Version: November 2023

7 This document is being publicly released in November 2023. It includes a description
8 of the AB928 Associate Degree for Transfer Intersegmental Implementation Committee
9 (hereafter "AB928 Committee" and/or "Committee") and the Committee's
10 recommendations in three areas:

- Goals: Identifying annual goals for increasing transfer rates in California and closing racial equity gaps in transfer outcomes to be adopted by the state.
- 13 STEM: *Proposing a new unit threshold for Science, Technology, Engineering and*
- 14 Mathematics (STEM) degree pathways that meet the requirements for admission
- to the California State University and the University of California.
- 16 Reengagement: *Reengaging Associate Degree for Transfer (ADT) earners who*
- do not transfer or apply for transfer into a four-year postsecondary educational
- 18 institution.

19 While the Committee was tasked with making recommendations in these three specific 20 areas, the Committee was also oriented by the broader purposes of the Committee as 21 outlined in legislation¹:

- 22 (b) The Associate Degree for Transfer Intersegmental Implementation
- 23 Committee is hereby established for the following purposes:
- 1) To serve as the primary entity charged with the oversight of the
- 25 associate degree for transfer for the sole purpose of strengthening the
- 26 pathway for students and to ensure it becomes the primary transfer
- 27 pathway in California between campuses of the California Community
- 28 Colleges and the University of California, the California State University,
- ²⁹ and participating independent institutions of higher education defined in

 ³⁰ ¹ California State Legislature. (2021). Assembly Bill No. 928, Student Transfer Achievement Reform Act of 2021:
 ³¹ Associate Degree for Transfer Intersegmental Implementation Committee. Retrieved April 18, 2023, from

³² https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220AB928

- subdivision (b) of Section 66010, so that more students can avail
- 34 themselves of the pathway's benefits. The oversight shall include, but is
- not limited to, all of the following:
- 36 (A) Ensuring a reduction in the number of excess units accumulated by
- California Community College students before transferring to four-year
 postsecondary educational institutions.
- 39 (B) Eliminating repetition of courses at four-year postsecondary
- 40 educational institutions taken by California Community College students
- 41 who successfully transfer into four-year postsecondary educational
- 42 institutions.
- 43 (C) Increasing the number of California Community College students who
- 44 transfer into a four-year postsecondary educational institution through an
- 45 ADT pathway.

46 The AB928 Committee will vote on its final recommendations at a public meeting on
47 November 30, 2023, and a final version of the Committee's report and
48 recommendations is due to the Governor's Office of Planning and Research by
49 December 20, 2023.

50 Members of the public wishing to provide comment on this draft may do so using this 51 form: https://www.ab928committee.org/public-comment. Public comments will be 52 publicly posted and delivered to the AB928 Committee members for their 53 consideration and discussion during public Committee meetings. Comments will not 54 be responded to individually.

55 Details about the AB928 Committee, including its meeting agendas and materials, can 56 be found at its website: https://www.ab928committee.org/

58	
59	TABLE OF CONTENTS
60	
61	
62	SECTION I: SUMMARY OF DRAFT RECOMMENDATIONS
63	A. RECOMMENDATIONS AREA: GOALS5
64	B. RECOMMENDATIONS AREA: STEM5
65	C. RECOMMENDATIONS AREA: REENGAGING ADT EARNERS
66	D. RECOMMENDATIONS AREA: OVERARCHING NEEDS TO MEET THE INTENT OF AB9287
	SECTION II: OVERVIEW OF THE AB928 ASSOCIATE DEGREE FOR TRANSFER INTERSEGMENTAL
68	IMPLEMENTATION COMMITTEE
69	A. INTRODUCTION
70	B. LEADERSHIP10
71	
72	D. TIMELINE AND ARC OF THE WORK15
73	SECTION III: RESEARCH AND RATIONALE ALIGNED TO THE DRAFT RECOMMENDATIONS
74	A. GOALS
75	
76	
77	
	SECTION IV: CONCLUSION AND NEXT STEPS
	RESOURCES AND TOOLS
80	APPENDIX A: PREVIOUS COMMITTEE MEMBERS
81	
82	

SECTION I: SUMMARY OF DRAFT RECOMMENDATIONS

84 85

86 NOTE TO COMMITTEE: The recommendations in this section are what the Committee 87 will vote on during the November 30, 2023 public meeting.

88 In 2021, the California State Legislature (via AB928) created the Associate Degree for
89 Transfer Intersegmental Implementation Committee and called upon it to make
90 recommendations to the Legislature in the following areas:

Goals: "Identifying annual goals for increasing transfer rates in California and closing racial equity gaps in transfer outcomes to be adopted by the state."
STEM: "Proposing a new unit threshold for STEM degree pathways that meet the requirements for admission to the California State University and the University of California."
Reengaging ADT earners: "Reengaging ADT earners who do not transfer or

97 apply for transfer into a four-year postsecondary educational institution."

98 The following list is the AB928 Committee's recommendations at a high level. The 99 Committee's full report, which follows, contextualizes these recommendations and 100 provides further research and rationale in support of the recommendations. The AB928 101 Committee calls for the following recommendations out of a strong belief that 102 increasing postsecondary attainment can improve the well-being of California's 103 residents, fulfill the demands of the workforce, and provide fair and equitable 104 opportunity in the labor market. A robust body of research demonstrates that equitable 105 opportunities for postsecondary education deliver a variety of benefits to both 106 individuals and the state, ranging from increased tax revenues to a fulfilled workforce, 107 increased civic engagement, and social mobility.² Stemming from this belief in the 108 power of postsecondary education to improve the lives of Californians, the AB928 109 Committee's recommendations seek to chart a bold path forward. The Committee 110 aspires to leave the status quo behind and achieve the maximum of what is possible 111 for the state of California and its residents.

123 Foundation. (2023.) Education for What? Retrieved September 21, 2023, from

^{112 &}lt;sup>2</sup> Cuellar Mejia, M., Perez, C.A., Hsieh, V. & Johnson, H. (2023). Is College Worth It? Public Policy Institute of 113 California. Retrieved October 27, 2023, from <u>https://www.ppic.org/publication/is-college-worth-it/;</u> McKinsey &

¹¹⁴ Company. (2023). Fulfilling the Potential of US Higher Education. Retrieved August 11, 2023, from

¹¹⁵ https://www.mckinsey.com/~/media/mckinsey/industries/education/our%20insights/fulfilling%20the%20potential%20of

 ^{116 %20}us%20higher%20education/fulfilling-the-potential-of-us-higher-education.pdf; Postsecondary Value Commission.
 117 (2021). Equitable Value: Promoting Economic Mobility and Social Justice through Postsecondary Education. Institute

¹¹⁸ for Higher Education Policy and the Bill & Melinda Gates Foundation. Retrieved August 11, 2023, from

¹¹⁹ https://www.postsecondaryvalue.org/wp-content/uploads/2021/05/PVC-Final-Report-FINAL.pdf; Trostel, P., and

¹²⁰ Smith, M.C. (2017.) It's Not Just the Money: The Benefits of College Education to Individuals and Society. University

¹²¹ of Maine and Lumina Foundation. Retrieved September 21, 2203, from

¹²² https://www.luminafoundation.org/wp-content/uploads/2017/08/its-not-just-the-money.pdf; Gallup and Lumina

¹²⁴ https://www.gallup.com/analytics/468986/state-of-higher-education.aspx

125

A. RECOMMENDATIONS AREA: GOALS

¹²⁶ *"Identifying annual goals for increasing transfer rates in California and closing racial*

equity gaps in transfer outcomes to be adopted by the state."

127 128

129 <u>Recommendation 1.</u> Adopt and monitor the following goals, designed to <u>prioritize first</u> 130 <u>and foremost closing equity gaps by race and ethnicity</u> in transfer outcomes:

• By 2030, close equity gaps by race and ethnicity in the outcomes of students

- who begin in the California Community Colleges (CCC) and seek to transfer; and
- By 2030, close equity gaps by race and ethnicity in the outcomes of students
- who begin in the CCC and seek to apply, be admitted, enroll and graduate from
- the University of California (UC) and California State University (CSU) systems.
- 136

<u>Recommendation 2.</u> Adopt and monitor the following goal: To meet the state's 70%
postsecondary credential attainment goal (set by Governor Newsom) by 2030, increase
statewide attainment by 2% each year from the current baseline of 56% <u>while closing</u>
<u>equity gaps by race and ethnicity</u> to ensure all of California's residents meet the 70%
goal.

<u>Recommendation 3.</u> Adopt and monitor the following goal: By 2030, 100% of the
entering CCC students who intend to (and meet the academic requirements for)
transfer will successfully transfer (apply to transfer, be admitted, and enroll) and will
complete a bachelor's degree within four years of transfer at any accredited non-profit
institution in- or out-of-state.

<u>Recommendation 4.</u> Adopt and monitor the following goal: By 2030, close regional
opportunity gaps to access Associate Degree for Transfer (ADT) pathways by ensuring
students can transfer in their region <u>and</u> in the major in which they earned their ADT.

150

151

B. RECOMMENDATIONS AREA: STEM

152	"Proposing a new unit threshold for STEM degree pathways that meet the
153	requirements for admission to the California State University and
154	the University of California."
155	

<u>Recommendation 5.</u> Establish and resource an Intersegmental Course Articulation and
Pathways Development infrastructure to oversee the process of course review,
pathways development, and determinations of similarity, with intentional participation
of faculty from CCC, CSU, UC and Association of Independent California Colleges and

160 Universities (AICCU) member institutions to maximize the potential of the ADT and its161 guarantee of admissions at participating four-year universities.

162 <u>Recommendation 6.</u> Retain the 60-unit requirement for ADTs while providing an option 163 for up to an additional 6 units for high-unit STEM ADTs and require the submission of 164 clear evidence and rationale for the higher units during the Transfer Model Curricula 165 (TMC) approval process.

<u>Recommendation 7.</u> Require that by the end of the 2023-24 academic year, TMC drafts
are in place for each of Engineering, Biology, Chemistry, Mathematics, Environmental
Science, Physics, and Computer Science pathways that prepare students for transfer to
both the CSU and UC systems and other four-year institutions that choose to
participate (such as members of AICCU and Historically Black Colleges and Universities
(HBCUs) currently engaged with the CCCCO). Should a discipline or major not yield to
a single transfer pathway, clear rationale and evidence on why separate pathways are
needed must be provided.

174 <u>Recommendation 8.</u> Set a deadline that the CCCs must adopt the TMCs (as created in 175 Recommendation 7) and create ADTs, and encourage the CSU and UC systems, and 176 other four-year institutions that choose to participate (such as members of AICCU and 177 HBCUs currently engaged with the CCCCO), to accept those ADTs for transfer so that 178 students are accessing the ADTs by fall of 2026.

<u>Recommendation 9.</u> Make clear that general education flexibility for STEM pathways is
allowed and may be required for the creation of equitable pathways in some STEM
programs.

182 <u>Recommendation 10.</u> To support equitable student success in STEM pathways, invest
 183 in the scaled implementation of culturally responsive student supports and
 184 evidence-based academic/pedagogical improvements.

<u>Recommendation 11.</u> Require transparency concerning membership and composition
of the Faculty Discipline Review Groups (FDRGs) and other intersegmental curriculum
groups.

<u>Recommendation 12.</u> In light of the relevance of AB1291³ to the goals of the AB928
Committee, require AB1291 be implemented in meaningful collaboration with the
CCCs and that pathways developed in response to AB1291 adhere to the
recommendations of the AB928 Committee regarding STEM TMCs.

 ¹⁹³ ³ California State Legislature. (2023). Assembly Bill No. 1291, University of California Associate Degree for Transfer
 ¹⁹⁴ Pilot Program. Retrieved November 2, 2023, from https://legiscan.com/CA/text/AB1291/2023

195		C. RECOMMENDATIONS AREA: REENGAGING ADT EARNERS
196	"Reengag	ing ADT earners who do not transfer or apply for transfer into a four-year
197		postsecondary educational institution."
198	Recommenc	lation 13. Invest in the creation, and assign responsibility for
199	implementat	tion, of a Transfer Reengagement Initiative for Associate Degree Holders
200	(TRIAD), a co	omprehensive plan organized into two overarching areas of focus:
201	• Strate	egies to reduce the number of students who get close to transfer and do
202	not tr	ansfer or apply to transfer:
203	0	Build a universal student application process;
204	0	Identify, monitor and make visible the students of focus;
205	0	Streamline processes and remove unnecessary barriers;
206	0	Study the impact of financial aid; and
207	0	Build a regional infrastructure for coordinating admissions (and redirecting
208		if needed) across segments and online offerings to ensure placebound
209		students can stay in their preferred region.
210	 Strate 	gies to reengage students who already hold the ADT and did not transfer
211	or ap	ply to transfer:
212	0	Launch a reengagement campaign that is carefully designed for success
213		and inclusive of:
214		 Reengagement scholarships that provide reduced or free tuition
215		and fees for returning students;
216		 Bridge programs that support students as they reenter
217		postsecondary education;
218		 Easily accessible coaching services so students can quickly and
219		easily receive customized support; and
220		 Funding levers and metrics that can incentivize institutions' focus
221		on increased student enrollment, persistence, and completion.
222		
223	D. RECOM	MENDATIONS AREA: OVERARCHING NEEDS TO MEET THE INTENT OF

224 225

AB928 Following over a year of meetings, discussion and analysis, the AB928 Committee

concluded that the only way to actually deliver on the promise of these 226

recommendations is to call for a dramatically changed postsecondary policymaking 227

228 environment in California. The following overarching recommendations are designed to

create the conditions that are absolutely necessary if these recommendations are to 229 230

succeed, and the intent of the AB928 legislation is to be met.

231 <u>Recommendation 14.</u> Permanently establish within state structures, and resource with 232 on-going funding, a Higher Education Intersegmental Council. This Council's make-up 233 should include students, senior administrative and academic senate leaders from all of 234 the segments, K12 representatives, workforce experts and equity advocates (mirroring 235 in many ways the representation on the AB928 Committee), and should seek to meet 236 the following goals:

• Develop a detailed plan, that outlines the roles and responsibilities of each

segment, for how the state will increase credential production and transfer

- attainment to meet the state's 70% attainment goal, while closing equity gaps,
 particularly by race and ethnicity, income and region;
- Build and resource statewide infrastructure for intersegmental coordination and
 collaboration, breaking down existing siloes;
- Create a new venue for addressing policy barriers, responding to new policies,
 and aligning and streamlining resources and investments;
- Assess educational program alignment to workforce demand and engage
 industry to align education and training programs;
- Develop a shared definition of regional service areas and alignment of equitable
 opportunity;
- Deepen understanding of student affordability through collaboration with critical
 entities such as the California Student Aid Commission (CSAC) and aligned
 affordability efforts such as college savings accounts and Free Application for
- 252 Federal Student Aid (FAFSA) for All; and
- Provide oversight for efforts recommended by the AB928 Committee, such as
- the Intersegmental Course Articulation and Pathways Development
- infrastructure, the monitoring of goals, and the Transfer Reengagement Initiative
- for Associate Degree Holders (TRIAD).

257 <u>Recommendation 15.</u> Invest in the accelerated completion of the Cradle-to-Career
258 data system, with active participation of representatives from the four segments of
259 higher education to inform data and information needs.⁴ Ensure that the data system
260 can provide ongoing monitoring of the goals and activities outlined by the AB928
261 Committee, and provide, at a minimum, data and analysis that is finely disaggregated
262 by race and ethnicity (e.g., disaggregated by subpopulation within groups such as
263 Asian), income, and region of at least the following metrics and areas of analysis:

• Outcomes for transfer students who start at community colleges, including data on who gets prepared for transfer, finishes the ADT, applies to transfer, is

⁴ The Cradle to Career longitudinal data system was created by AB132 and is expected to improve the availability of
intersegmental data. California State Legislature. (2021). Assembly Bill No. 132, Postsecondary education trailer bill.
Retrieved April 18, 2023, from https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220AB132

- accepted for transfer, enrolls and then completes the bachelor's degree (andother credentials);
- Outcomes for students who start in four-year institutions and transfer to other
- institutions (e.g., to community college colleges, other four-year institutions,
- etc.), including data on who applies to transfer, is accepted for transfer, enrolls and then completes credentials;
- Total time and units to degree for transfer students;
- Labor market outcomes for transfer students;
- The effects of impaction/redirection;
- Intra- and inter-regional transfer patterns;
- Intersectional identities of transfer students and related success patterns; and
- Credits that are unusable or repeated in the transfer process.

<u>Recommendation 16.</u> Commission a comprehensive needs and opportunities
 landscape analysis of regional workforce and educational needs, resources, and gaps.

<u>Recommendation 17.</u> Provide ongoing, permanent funding for the holistic strategies needed to ensure that marginalized and historically minoritized students succeed at the levels required to deliver on the promise of equitable economic mobility and meet the state's 70% attainment goal, with intentional monitoring of impact to ensure they are improving outcomes and achieving equity.

288

SECTION II: OVERVIEW OF THE AB928 ASSOCIATE DEGREE FORTRANSFER INTERSEGMENTAL IMPLEMENTATION COMMITTEE

A. INTRODUCTION

292

- 293
 294 In 2021, the California State Legislature (via <u>AB928</u>) created the Associate Degree for
 295 Transfer Intersegmental Implementation Committee (hereafter "AB928 Committee")
- 296 and called upon it to:

[S]erve as the primary entity charged with the oversight of the associate degree

for transfer for the sole purpose of strengthening the pathway for students and

- to ensure it becomes the primary transfer pathway in California between
- campuses of the California Community Colleges and the University of California,
- the California State University, and participating independent institutions of
- 302 higher education.
- 303

The AB928 Committee began its work on July 1, 2022 and will work through June 30, 2025. The legislation clearly outlined the Committee's areas of focus for 2023, which are to make recommendations to the Legislature in the following areas:

- "Identifying annual goals for increasing transfer rates in California and closing
 racial equity gaps in transfer outcomes to be adopted by the state."
- "Proposing a new unit threshold for STEM degree pathways that meet the
 requirements for admission to the California State University and the University
 of California."
- "Reengaging ADT earners who do not transfer or apply for transfer into a
 four-year postsecondary educational institution."
- 314

B. LEADERSHIP

315 316

317 Dr. Aisha Lowe, Executive Vice Chancellor of the California Community Colleges, is the 318 AB928 Committee's first Chair, serving a two-year term. AB928 states that:

- The first chair of the committee shall be the representative from the Office of the
- Chancellor of the California Community Colleges and shall serve a two-year
- term. Following the first chair's two-year term, the committee shall elect a chair
- from its members to serve a two-year term. A member shall not serve
- consecutive terms as chair of the committee and the position of chair shall rotate
- among the members of the committee.
- 325

326 The facilitator, Sova, will design an election process for 2024 to ensure a timely 327 transition.

328

C. MEMBERSHIP

329 330

331 <u>Current Members</u>

332

333 The members of the AB928 Committee, as of the writing of this draft, are:

334

335 (i) Designating/appointing entity: The Office of the Chancellor of the California

336 Community Colleges

337

- 338 Aisha Lowe
- 339 Executive Vice Chancellor, Equitable Student Learning, Experience and Impact Office
- 340 CA Community Colleges Chancellor's Office

341

342 (ii) Designating/appointing entity: The Office of the Chancellor of the California State

343 University

344

- 345 Laura Massa
- 346 Interim Associate Vice Chancellor, Academic and Faculty Programs
- 347 Office of the CSU Chancellor

348

349 (iii) Designating/appointing entity: The Office of the President of the University of350 California

350 Califo

351

352 Yvette Gullatt

- 353 Vice President and Vice Provost, Graduate, Undergraduate and Equity Affairs
- 354 University of California, Office of the President

355

356 (iv) Designating/appointing entity: The Association of Independent California Colleges357 and Universities

358

359 Tanaz Arteaga

360 AICCU Sector Representative

361

362 (v) Designating/appointing entity: The State Department of Education

363 364 Peter Callas 365 Director, Career and College Transition Division 366 California Department of Education 367 368 (vi) Designating/appointing entity: The Student Senate for the California Community **369** Colleges 370 371 John "Jay" Doherty 372 Student 373 Los Rios Community College District 374 375 (vii) Designating/appointing entity: The California State Student Association 376 377 Samantha Alvarez Chavarria 378 Student 379 Vice President of Legislative Affairs 380 381 (viii) Designating/appointing entity: The University of California Student Association 382 383 William Chao 384 Student 385 University of California, Los Angeles 386 387 (ix) Designating/appointing entity: The Academic Senate for the California Community 388 Colleges 389 390 Virginia May 391 Past President 392 Academic Senate for California Community Colleges 393 394 (x) Designating/appointing entity: The Academic Senate of the California State 395 University 396 397 Beth Steffel 398 Chair 399 Academic Senate of the California State University 400 401 (xi) Designating/appointing entity: The Academic Senate of the University of California 402 403 Susan Cochran 404 Immediate Past Chair 405 Academic Senate, University of California 406 407 (i) The Senate Committee on Rules shall appoint one member from the workforce 408 sector with expertise in the fields of science, technology, engineering, or mathematics. 409 410 Rose-Margaret Itua 411 Professor of Engineering 412 Ohlone College 413 414 (ii) The Speaker of the Assembly shall appoint one member with a background in higher 415 education research that includes scholarship on student transfer issues in the state. 416 417 Cecilia Rios-Aguilar 418 Professor and Associate Dean of Equity, Diversity and Inclusion 419 School of Education and Information Studies 420 University of California, Los Angeles 421 422 (iii) The Lieutenant Governor shall appoint one member from an educational equity and 423 social justice organization. 424 425 Mike Muñoz 426 Superintendent-President 427 Long Beach City College 428 429 (iv) The Governor shall appoint one member from an educational equity and social 430 justice organization. 431 432 Jessie Ryan **433** Executive Vice President 434 Campaign for College Opportunity 435 436 (v) The Governor shall appoint one member who is a California community college 437 student. 438 439 David Ramirez

440 Student

441 University of California, Los Angeles

442

443 Please see Appendix A for the history of any changes in representatives.

444

445 <u>Membership Criteria</u>

446

447 The membership requirements of the AB928 Committee are outlined in the legislation.
448 AB928 states that "the membership of the committee shall reflect its intersegmental
449 function by including a cross-section of the stakeholders who will be needed to fulfill
450 the committee's responsibilities," and stipulates one representative from each of the
451 following entities:

- The Office of the Chancellor of the California Community Colleges.
- The Office of the Chancellor of the California State University.
- The Office of the President of the University of California.
- The Association of Independent California Colleges and Universities.
- The State Department of Education.
- The Student Senate for the California Community Colleges.
- The California State Student Association.
- The University of California Student Association.
- The Academic Senate for the California Community Colleges.
- The Academic Senate of the California State University.
- The Academic Senate of the University of California.
- 463

464 Designating entities, as named above, shall fill vacancies when their representative
465 member positions on the Committee are vacant. Appointing entities must notify both
466 Sova and the Committee Chair of any vacancies and appointments.

467

468 AB928 additionally stipulates that five members of the Committee shall be appointed 469 as follows:

- "The Senate Committee on Rules shall appoint one member from the workforce
 sector with expertise in the fields of science, technology, engineering, or
 mathematics.
- The Speaker of the Assembly shall appoint one member with a background
 in higher education research that includes scholarship on student transfer issues in
 the state.
- The Lieutenant Governor shall appoint one member from an educational equity
 and social justice organization.
- The Governor shall appoint one member from an educational equity and social
 justice organization.

The Governor shall appoint one member who is a California community college
 student."

482

483 Appointing entities, as described above, shall fill vacancies when their appointed 484 member positions on the Committee are vacant. Members appointed shall serve at the 485 pleasure of their respective appointing entities. Appointing entities must notify both 486 Sova and the Committee Chair of any vacancies and appointments.

487

488

D. TIMELINE AND ARC OF THE WORK

489

490 During 2022-23, the AB928 Committee held seven public meetings:

- October 13, 2022
- December 7, 2022
- January 26, 2023
- April 25, 2023
- June 12, 2023
- September 18, 2023
- November 30, 2023

498

499 Meeting agendas and materials are available here: https://www.ab928committee.org/ 500

In addition, study groups reviewed research, heard from experts, and requested
additional data (through the AB928 Committee's data partner Student-Ready
Strategies). The study groups concluded their studying and the facilitator, Sova,
compiled this set of emerging considerations to be released for public comment and
distilled by the AB928 Committee into its final recommendations and report.

SECTION III: RESEARCH AND RATIONALE ALIGNED TO THE DRAFT 508 RECOMMENDATIONS 509

510

511 The AB928 Committee's recommendations emerged from a year of discussion and 512 deliberation bolstered by research and analysis. The following section outlines the ⁵¹³ research and analysis supporting the AB928 Committee's recommendations.

514

A. GOALS

515 The California State Legislature called upon the AB928 Committee to identify annual 516 goals for increasing transfer rates in California and closing racial equity gaps in transfer 517 outcomes to be adopted by the state. Specifically, these goals shall include all of the 518 following:

- (A) Annual goals for improving transfer attainment needed to meet the state's 519 workforce demands; 520
- (B) Goals for closing gaps in transfer outcomes by race; 521
- (C) Goals for closing regional opportunity gaps to access ADT pathways; and 522
- (D) Annual goals to meet the statewide degree attainment goal of 70 percent. 523
- 524

525 To that end, the AB928 Committee recommends a set of goals for California to meet 526 state workforce needs and achieve greater educational and economic equity. California 527 lacks an intersegmental data system that supports analysis of student movement across 528 segments. As the new Cradle to Career longitudinal data system created by AB132 529 makes better data available, we recommend the state commission an effort to revise 530 and improve these goals.

531

While undertaking its work to set goals, the AB928 Committee operated with a set of 532 guiding premises. They are: 533

534

535 Overall guiding premises for goal-setting.

California is the most racially diverse state in the nation, yet stubborn equity 536

- gaps by race and ethnicity in postsecondary attainment persist.⁵ Closing equity 537
- gaps in postsecondary attainment will deliver benefits and improve the 538
- well-being of all of the state's residents, while also ensuring fair opportunity.⁶ 539

542 %20us%20higher%20education/fulfilling-the-potential-of-us-higher-education.pdf; Postsecondary Value Commission.

^{544 &}lt;sup>5</sup> Lumina Foundation. (2021). "A Stronger Nation: Learning Beyond High School Builds American Talent." Retrieved 545 April 19, 2023, from https://www.luminafoundation.org/stronger-nation/report/#/progress

^{540 &}lt;sup>6</sup> McKinsey & Company. (2023). Fulfilling the Potential of US Higher Education. Retrieved August 11, 2023, from

⁵⁴¹ https://www.mckinsey.com/~/media/mckinsey/industries/education/our%20insights/fulfilling%20the%20potential%20of

^{543 (2021).} Equitable Value: Promoting Economic Mobility and Social Justice through Postsecondary Education. Institute

The AB928 Committee's recommendations thus elevate closing equity gaps as 546 the first priority and as a theme underlying all subsequent recommendations. 547 There are also unacceptable inequities in postsecondary attainment based on 548 region and income that the Committee calls for addressing.⁷ 549 In order to sustain a productive workforce in California, improve the well-being 550 of the state's residents and provide fair and equitable opportunity for social and 551 economic mobility, a higher percentage of Californians must attain a 552 postsecondary degree or workforce credential. To that end, the state of 553 California has a goal (set by Governor Newsom) that 70% of the adult 554 population, ages 25-64, will have a postsecondary credential-college degree, 555 certificate, industry-recognized certification, or other credential of value-by 556 2030.8 557 An effective and efficient system of college transfer, in which students complete 558 the first two years toward a bachelor's degree at one of California's community 559 colleges and then transfer to a university for the remaining coursework, will be 560 necessary to help the state meet its 70% goal. Many transfer partners, such as a 561 number of CSU institutions and in-state members of the AICCU do have 562 additional capacity and an interest in enrolling more transfer students. 563 College transfer in California is currently inefficient, evidenced by the fact that 564 only one in four students who start at a community college with a transfer goal 565 successfully transfers within five years.⁹ 566 There are pervasive, unacceptable inequities in transfer outcomes based on 567 race, region, and income. For example, according to an analysis by the Public 568 Policy Institute of California (PPIC), 56 percent of freshmen who enrolled in a 569 California Community College in 2016 were Latine, African American, or Native 570 American, but only 47 percent of CSU transfers and 32 percent of UC transfers 571 were from these populations.¹⁰ 572

⁵⁸⁷ for Higher Education Policy and the Bill & Melinda Gates Foundation. Retrieved August 11, 2023, from

⁵⁸⁸ https://www.postsecondaryvalue.org/wp-content/uploads/2021/05/PVC-Final-Report-FINAL.pdf

^{583 &}lt;sup>7</sup> California Competes. (n.d.). Pathways to Prosperity. Retrieved April 18, 2023, from

⁵⁸⁴ https://californiacompetes.org/p2p; Lumina Foundation. (2021). A Stronger Nation: Learning Beyond High School 585 Builds American Talent. Retrieved April 19, 2023, from

⁵⁸⁶ https://www.luminafoundation.org/stronger-nation/report/#/progress

^{581 &}lt;sup>8</sup> See, for example, Office of Governor Newsom. (n.d.) "California Blueprint." Retrieved August 1, 2023, from

⁵⁸² https://www.gov.ca.gov/wp-content/uploads/2022/01/Higher-Education-Fact-Sheet.pdf

^{577 &}lt;sup>9</sup> Johnson, H., & Cuellar Mejia, M. (2020). Increasing Community College Transfers: Progress and Barriers. Public

⁵⁷⁸ Policy Institute of California. Retrieved April 18, 2023, from

⁵⁷⁹ https://www.ppic.org/wp-content/uploads/increasing-community-college-transfers-progress-and-barriers-september-2 580 020.pdf

^{573 &}lt;sup>10</sup> Johnson, H., & Cuellar Mejia, M. (2020). Increasing Community College Transfers: Progress and Barriers. Public

⁵⁷⁴ Policy Institute of California. Retrieved April 18, 2023, from

⁵⁷⁵ https://www.ppic.org/wp-content/uploads/increasing-community-college-transfers-progress-and-barriers-september-2 576 020.pdf

- Despite the creation of guaranteed-transfer pathways such as the ADT and the
 UC Transfer Pathways, the transfer system remains unnecessarily complex and
- contains too many contingencies to be considered universally accessible.¹¹
- There are, however, signs of improvement, and evidence backing this
- committee's focus on the ADT. A 2023 analysis by PPIC found that:
- 594 The percentage of successful transfer students who earned an ADT
- 595 before transferring doubled for all racial groups when comparing those
- who transferred in 2021–22 to those who transferred in 2015–16. The increase was particularly significant among Latino students, with the
- 598percentage of successful transfers with an ADT rising from 25 to 53599percent. For Black students, the percentage of successful transfers with an
- ADT increased from 14 to 36 percent.¹²
- To meet state workforce needs and achieve greater educational and economic
- equity, California's postsecondary transfer system must transform in dramatic
- and meaningful ways.
- 604

605 The imperative to eliminate inequities in transfer outcomes by race.

- There is no acceptable level of racial inequity in California's education system.
- Disaggregated data lay bare pervasive, unacceptable inequities in transfer
- outcomes based on race. PPIC found, for example, that "In terms of race and
- 609 ethnicity, we see large equity gaps among transfers." Latine students represent
- 51 percent of students who declare a degree/transfer goal, but only 35 percent
- of those who transfer within four years. African American students represent 7
- percent of those who intend to transfer and 5 percent of those who do.¹³
- To achieve transfer equity, the demographics of successful transfer students
- should be consistent with the demographics of students entering a community
- college with the intent to transfer.
- 616

617 <u>The need to increase credential production to meet the statewide degree attainment</u> 618 <u>goal of 70 percent.</u>

^{626 &}lt;sup>11</sup> Student-Ready Strategies. (2023, January 26). "Understanding Transfer: Current Research in California."

⁶²⁷ Presentation for the Associate Degree for Transfer Intersegmental Implementation Committee. Retrieved April 18, 628 2023, from https://www.ab928committee.org/meetings/january-26-2023

^{623 &}lt;sup>12</sup> Cuellar Mejia, M., Johnson, H., Perez, C.A. & Jackson, J. (2023). Strengthening California's Transfer Pathway.

⁶²⁴ Public Policy Institute of California. Retrieved October 27, 2023, from

⁶²⁵ https://www.ppic.org/publication/strengthening-californias-transfer-pathway/

^{619&}lt;sup>13</sup> Johnson, H., & Cuellar Mejia, M. (2020). *Increasing Community College Transfers: Progress and Barriers*. Public

⁶²⁰ Policy Institute of California. Retrieved April 18, 2023, from

⁶²¹ https://www.ppic.org/wp-content/uploads/increasing-community-college-transfers-progress-and-barriers-september-2 622 020.pdf

629 •	As noted above, the state of California has a goal that 70% of the adult
630	population, ages 25-64, will have a postsecondary credential-college degree,
631	certificate, industry-recognized certification, or other credential of value-by
632	2030. ¹⁴
633 •	California's population of people between 25 and 64 years of age is nearly 21
634	million, so each percentage point gain in the educational attainment rate
635	requires that 210,000 more degrees be produced within the state. ¹⁵
636 •	California's public and independent colleges and universities are implementing a
637	number of efforts designed to improve student success, including CSU's
638	Graduation Initiative 2025, UC's Capacity 2030 and CCC's Vision for Success. ¹⁶
639	California's public colleges and universities have also set goals to increase
640	enrollment, improve graduation rates and close equity gaps.
641 •	These reforms and initiatives make it possible to set ambitious goals for
642	increased degree production and postsecondary educational attainment.
643 •	Efforts to increase credential production should be inclusive of a variety of ways
644	that workers and learners can obtain credentials. For example, short-term
645	credentials are critical vehicles for economic mobility with increases in earnings
646	for each level of educational attainment and are an important starting point for
647	low income students, in particular adult learners as they begin their educational
648	journey. ¹⁷
649 •	A comprehensive plan to meet California's 70% attainment goal should be
650	supported by a holistic analysis-as yet not undertaken-of factors such as
651	regional workforce demand, in-out migration, population growth, students
652	attending out-of-state institutions, institutional capacity and changes needed by
653	particular dates to meet the goal.
654	
655 <u>The n</u>	eed to improve transfer attainment to meet the state's workforce demands.
656 •	There is no acceptable level of inequity in transfer student outcomes in
657	California's education system. It should be no harder for a student who begins at
658	a CCC to complete a bachelor's degree as it is for a student who begins at a

baccalaureate-granting institution.

 ⁶⁶⁹ ¹⁴ See, for example, Office of Governor Newsom. (n.d.) "California Blueprint." Retrieved August 1, 2023, from
 ⁶⁷⁰ https://www.gov.ca.gov/wp-content/uploads/2022/01/Higher-Education-Fact-Sheet.pdf

 ⁶⁶⁸ ¹⁵ U.S. Census Bureau. (n.d.) "Quick Facts." Retrieved April 19, 2023, from https://www.census.gov/quickfacts/CA
 ⁶⁶² ¹⁶ California State University. (n.d.). "Graduation Initiative 2025." Retrieved April 18, 2023, from

⁶⁶³ https://www.calstate.edu/csu-system/why-the-csu-matters/graduation-initiative-2025/What-Is-Graduation-Initiative-202 664 5; California Community Colleges Chancellor's Office. (2021). *Update to the Vision for Success*. Retrieved April 18,

^{665 2023,} from https://www.cccco.edu/-/media/CCCCO-Website/Reports/vision-for-success-update-2021-a11y.pdf;

⁶⁶⁶ University of California. (2022, July 22). *University of California 2030 Capacity Plan*. Retrieved April 18, 2023, from 667 https://regents.universityofcalifornia.edu/regmeet/july22/b5attach2.pdf

^{660 &}lt;sup>17</sup> Tillery, R., Booth, K. & Johnstone, R. (2023). "Transfer, Credentials, and Employment in CA." WestEd and National 661 Center for Inquiry and Improvement.

- Many students transfer regardless of completing the requirements for transfer or completing the ADT, but at the same time far too few students transfer. There are many attrition points in the transfer system, including students not applying to transfer, not being admitted for transfer, and not enrolling even if admitted.
 To create a more equitable and effective system of transfer, attrition must be
- dramatically reduced at each of these points.
- Researchers at RP Group found that 156,999 students (roughly 8%) of an 677 examined cohort were near the transfer gate, meaning that the students had 678 earned >60 transferable units with a 2.0 GPA, however had not yet transferred 679 as they were missing transfer-level English and/or math.¹⁸ These students are a 680 vital pool of talent for California, and institutions statewide-particularly those 681 facing enrollment declines-should be actively working to conduct outreach to 682 these students, proactively making them feel welcome and encouraging them to 683 apply, transfer and complete their degrees. 684
- A labor market analysis conducted by WestEd's Center for Economic Mobility, in
 collaboration with the National Center for Inquiry and Improvement, found that
- "bachelor's degree attainment is the most reliable path by far to attaining a
- good job that pays a living wage." California's workforce is demanding
- bachelor's degrees at the same time that many of its public four-year institutions
- are challenged by enrollment constraints. Improving the transfer
- 691 function-ensuring students can start at a community college and complete a
- bachelor's degree at a public or independent university, thereby reducing
- 693 enrollment pressures on constrained four-year institutions-is absolutely essential
- to ensuring more California residents have the opportunity for a living wage job.¹⁹
- 695

696 The need to close regional opportunity gaps to access ADT pathways.

- In a 2023 analysis of California, PPIC found persistent regional disparities in
- transfer student enrollments and outcomes, which "may be influenced by
- disparities in geographic access to the state's four-year public institutions."
- 700 Multiple studies have documented that the majority of college students seek to
- stay close to home, and community college students are more likely to stay
- close to home than their peers attending bachelor's-granting institutions. For
- 703 California, PPIC found that "transfer students tend to enroll in campuses closer

709 https://rpgroup.org/Portals/0/Documents/Projects/ThroughtheGate/Through-the-Gate-Phase-I-Technical-Report.pdf

¹⁹ Tillery, R., Booth, K. & Johnstone, R. (2023). "Transfer, Credentials, and Employment in CA." WestEd and National 705 Center for Inquiry and Improvement.

^{706&}lt;sup>18</sup> Cooper, D., Fong, K., Karandjeff, K., Kretz, A., Nguyen, A., Nguyen, K., Purnell-Mack, R., Schiorring, E. (2017).

⁷⁰⁷ Through the Gate: Mapping the Transfer Landscape for California Community College Students.Retrieved August 10, 708 2023, from

- to home even when admitted to campuses further away."²⁰ For many students in 710 California, being able to continue to live, work and attend college in their region 711 is a matter of necessity, allowing them to meet their familial, financial and work 712 responsibilities.²¹ 713 For placebound students, access to ADTs is only achieved if the ADT in that 714 program of study is both offered by a community college and accepted by an 715 institution in the student's region of residence. 716 Statewide, there are more incomplete regional ADT pathways than there are 717 complete pathways, between the CCCs and the CSU, that offer both the 718 community college and university curriculum in a given region and program of 719 study.22 720 • WestEd's Center for Economic Mobility reported "extremely little variation by 721 region" in its finding that "bachelor's degree attainment is the most reliable path 722 by far to attaining a good job that pays a living wage."²³ 723 • Regional studies of associate degree and ADT production and transfer rates by 724 the WestEd Center for Economic Mobility find that production of associates and 725 ADT degree earners far exceeds the actual transfer rates into the California State 726 University System for nearly all disciplines, sometimes by multiple factors, and 727 that there are equity gaps in which students of color are disproportionately 728 represented in degree pathways with much lower transfer rates such as 729 interdisciplinary studies.²⁴ 730
- Opportunity gaps in regional ADT access create an insurmountable barrier for
- many students, evidenced by the fact that only roughly one in 10 "redirected"
- transfer students enrolls at a CSU. Nearly half of students who enroll in a CSU

746 dry.pdf, Carter, J. (Aug. 17, 2016). College Students Prefer to Stay Close to Home, Data Finds. *High* 747 Retrieved June 21, 2023 from

738 ²² Student-Ready Strategies. (2023). "Regional Associate Degree for Transfer Analysis." Data analysis created for the **739** Associate Degree for Transfer Intersegmental Implementation Committee based on data from the California

741 Retrieved April 18, 2023, from

735 Center for Inquiry and Improvement.

 ^{752 &}lt;sup>20</sup> Cuellar Mejia, M., Johnson, H., Perez, C.A. & Jackson, J. (2023). Strengthening California's Transfer Pathway.
 753 Public Policy Institute of California. Retrieved October 27, 2023, from

⁷⁵³ Public Policy Institute of California. Retrieved October 27, 2023, from 754 https://www.ppic.org/publication/strengthening-californias-transfer-pathway/

^{743&}lt;sup>21</sup> Hillman, N. & Weichman, T. Education Deserts: The Continued Significance of "Place" in the Twenty-First Century.

⁷⁴⁴ American Council on Education, retrieved June 21, 2023 from

⁷⁴⁵ https://www.acenet.edu/Documents/Education-Deserts-The-Continued-Significance-of-Place-in-the-Twenty-First-Cent 746 ury.pdf; Carter, J. (Aug. 17, 2016). "College Students Prefer to Stay Close to Home, Data Finds." *Higher Ed Dive.*

⁷⁴⁸ https://www.highereddive.com/news/college-students-prefer-to-stay-close-to-home-data-finds/424594/; Wozniak, A.

^{749 (}March 22, 2018). "Going Away to College? School Distance as a Barrier to Higher Education." *Econofact*, University 750 of Notre Dame. Retrieved June 21, 2023 from

⁷⁵¹ https://econofact.org/going-away-to-college-school-distance-as-a-barrier-to-higher-education

⁷⁴⁰ Community Colleges Chancellor's Office and the California State University Transfer Model Curriculum website.

⁷⁴² https://www.calstate.edu/attend/degrees-certificates-credentials/Pages/TMC-Search.aspx#page-2

^{736&}lt;sup>23</sup> Tillery, R., Booth, K. & Johnstone, R. (2023). "Transfer, Credentials, and Employment in CA." WestEd and National 737 Center for Inquiry and Improvement.

^{734&}lt;sup>24</sup> Tillery, R., Booth, K. & Johnstone, R. (2023). "Transfer, Credentials, and Employment in CA." WestEd and National

755	after being redirected are Latine, while Asian and white students each make up
756	about 20 percent of those who are redirected and enroll. All other racial groups
757	make up less than 10 percent of those who are redirected and enroll. ²⁵
758	 A disproportionate share of California's Black students transfer to for-profit
759	institutions, and many are concerned about inequities in how they are served by
760	those institutions. ²⁶
761	• Greater regional and programmatic alignment for ADT pathways will help many
762	more students successfully transfer and improve the overall effectiveness of the
763	transfer system.
764	
765	With these guiding premises in mind, the AB928 Committee offers the following
766	recommendations, research and rationale.
767	
	ecommendation 1. Adopt and monitor the following goals, designed to prioritize first
769 <u>a</u>	<u>nd foremost closing equity gaps by race and ethnicity in transfer outcomes²⁷:</u>
770	 By 2030, close equity gaps by race and ethnicity in the outcomes of students
771	who begin in the CCC and seek to transfer; and
772	 By 2030, close equity gaps by race and ethnicity in the outcomes of students
773	who begin in the CCC and seek to apply, be admitted, enroll and graduate from
774	the University of California (UC) and California State University (CSU) systems.
775	
	is imperative for the AB928 Committee to call for equity gaps to be fully closed by
	030 in measures that are aligned to critical steps along the student transfer pathway.
	he lack of an intersegmental data system in California constrained the ability of the
	B928 Committee to analyze comprehensive data about transfer student outcomes.
	he recommended goals that follow are therefore presented in two groupings, aligned
781 to	o the most robust data available for the Committee to study:
782	
	Goal 1: By 2030, close equity gaps by race and ethnicity in the outcomes of students
784 <u>M</u>	<u>vho begin in the CCC and seek to transfer.</u>
785	
	As data in Figures 1-3 and Table 1 make clear, there are concerning inequities by race
787 a	nd ethnicity in:
	California State University. (2022). Student Admissions and Impaction Policies Report 2022. Retrieved April 18,
794 h	023, from ttps://www.calstate.edu/impact-of-the-csu/government/Advocacy-and-State-Relations/legislativereports1/Student-Ad
	issions-and-Impaction-Policies-Report-2022.pdf Campaign for College Opportunity. (2019). State of Higher Education for Black Californians. Retrieved April 18,
790 2	023, from
(91 n	ttps://collegecampaign.org/wp-content/uploads/2023/02/2019-State-of-Black-Californians-Full-Report-Final.pdf

788 ²⁷ Aligns to AB928's call for "(B) Goals for closing gaps in transfer outcomes by race."

Who starts at the CCCs and transfers to any four-year institution within six years. 796 For example, the percentage of AY 16-17 CCC entrants who transfer to any 797 four-year institutions within six years is: 16% for Hispanic, 21% for African 798 American, 26% for Asian and 28% for white Non-Hispanic. Data should be 799 regularly monitored to ensure all populations are transferring at the same rate. 800 Who starts at the CCCs and applies to transfer to the UC or CSU. For example, 801 while 48% of all CCC entrants are Hispanic/Latine, Hispanic/Latine students 802 represent 30% of the CCC students who applied to the UC for transfer in AY 803 18-19 and 43% of the CCC students who apply to the CSU for transfer in AY 804 18-19. Data should be regularly monitored to ensure all populations are 805 applying to transfer at the same rate. 806 807

808 Goal 2: By 2030, close equity gaps by race and ethnicity in the outcomes of students
809 who begin in the CCC and seek to apply, be admitted, enroll and graduate from the
810 UC and CSU systems.

811

As Tables 2 and 3 below make clear, there are concerning equity gaps by race and ethnicity for students who apply but are not admitted, are admitted but do not enroll, and enroll but do not graduate within four years.²⁸ At the CSU, for example, the percent of transfer students who apply and are not admitted is: 20% for Asian, 20% for Hispanic/Latine students, 21% for white students and 27% for African American/Black students. At the UC, the percent of transfer students who apply and are not admitted is: 23% for Asian, 27% for Hispanic/Latine students, 25% for White students and 38% students. American/Black students.

820

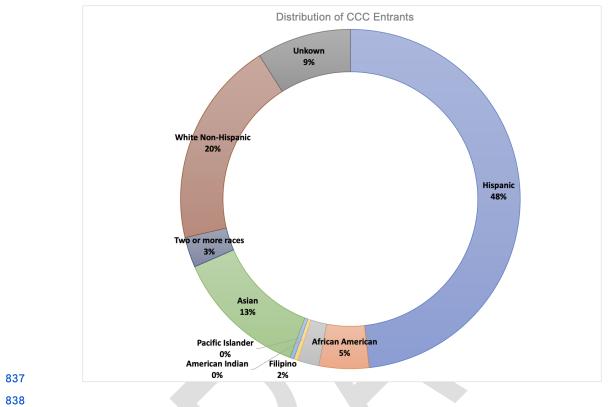
The CCC, UC and CSU systems are already engaged in and committed to implementing a number of efforts designed to improve student success and close equity gaps, including CSU's Graduation Initiative 2025, UC's Capacity 2030 and CCC's Vision for Success. Individual AICCU institutions are similarly focused on improving equitable student success. As a part of those efforts, CCC, UC, CSU and AICCU systems and institutions must look at this transfer data carefully and implement strategies now designed to close all equity gaps by 2030.

To meet these goals will require intentional and holistic resources for, and strong implementation of, a range of strategies that can improve equitable outcomes for stransfer students (s the Overarching Recommendations for additional details).

^{833 &}lt;sup>28</sup> Note that the four-year time horizon begins in Fall 2018 for both Fall 2018 and Spring 2019 entrants.

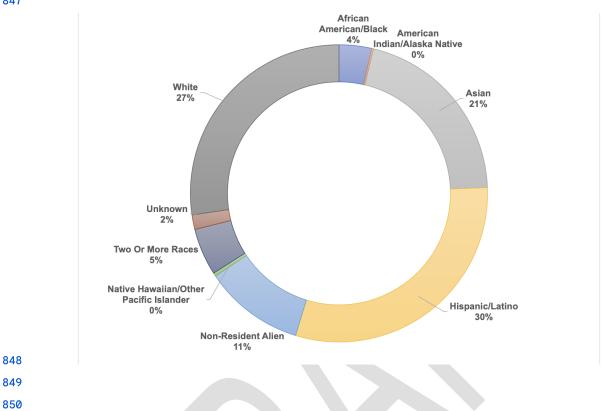
834 Figure 1: Distribution of California Community College First-Year, First-Time Entrants in835 AY 16-17 by Race/Ethnicity





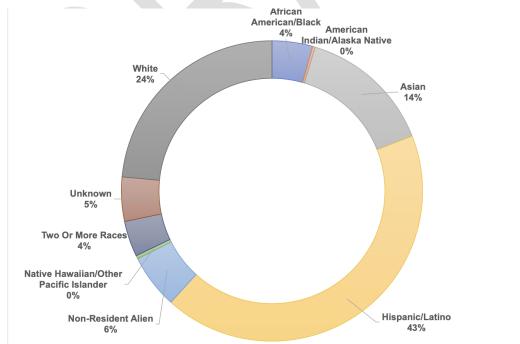
840 Table 1: Racial Distribution of CCC AY 16-17 First-Year, First-Time Entrants and 841 Transfers

Race/Ethnicity	Number of students who enter (AY 16-17)	Racial distribution of entrants	Number of AY 16-17 entrants who transfer within 6 years	Racial distribution of transfers	Transfer Success Rate
African American	14,996	5%	3,206	5%	21%
American Indian	1,193	0%	202	0%	17%
Asian	39,945	13%	10,238	17%	26%
Filipino	6,460	2%	2,138	3%	33%
Hispanic	152,192	48%	24,639	40%	16%
Pacific Islander	1,249	0%	245	0%	20%
Two or more races	9,081	3%	3,147	5%	35%
Unknown	28,327	9%	899	1%	3%
White Non-Hispanic	62,098	20%	17,275	28%	28%
Total	315, 541	100%	61,989	100%	20%



846 Figure 2: Distribution of CCC Transfer Applicants for AY 18-19 by Race/Ethnicity, UC 847

851 Figure 3: Distribution of CCC Transfer Applicants for AY 18-19 by Race/Ethnicity, CSU852



854 Table 2: Baseline Inequity Gaps by Race and Ethnicity in Transfer Attainment, AY
 855 18-19, CSU²⁹

856

CSU	Applied	Applied but not admitted	Percent of Racial group	Admitted but not enrolled	Percent of Racial group	Enrolled but not graduated	Percent of Racial group
African American/Black	4,252	1,150	27%	1,185	28%	526	12%
American Indian/Alaska Native	268	63	24%	74	28%	32	12%
Asian	14,022	2,865	20%	4,039	29%	1,302	9%
Hispanic/Latino	41,569	8,463	20%	11,011	26%	4,457	11%
Non-Resident Alien	5,690	1,031	18%	1,666	29%	595	10%
Native Hawaiian/Other Pacific Islander	348	81	23%	106	30%	46	13%
Two Or More Races	3,732	800	21%	1,094	29%	366	10%
Unknown	4,645	1,035	22%	1,239	27%	498	11%
White	22,884	4,720	21%	6,134	27%	2,135	9%

857

858 Table 3: Baseline Inequity Gaps by Race and Ethnicity in Transfer Attainment, AY

859 18-19, UC³⁰

860

		Applied but	Percent of	Admitted but	Percent of	Enrolled but	Percent of
UC	Applied	not admitted	Racial group	not enrolled	Racial group	not graduated	Racial group
African American/Black	1,289	489	38%	213	17%	127	10%
American Indian/Alaska Native	68	23	34%	11	16%	6	9%
Asian	7,510	1,726	23%	1,284	17%	551	7%
Hispanic/Latino	11,032	2,954	27%	2,350	21%	1,054	10%
Non-Resident Alien	3,962	695	18%	691	17%	261	7%
Native Hawaiian/Other Pacific							
Islander	134	47	35%	21	16%	7	5%
Two Or More Races	1,858	494	27%	333	18%	162	9%
Unknown	576	150	26%	99	17%	52	9%
White	9,936	2,459	25%	1,847	19%	686	7%

861

862 Recommendation 2. Adopt and monitor the following goal: To meet the state's 70%

863 postsecondary credential attainment goal by 2030, increase statewide attainment by

864 2% each year from the current baseline of 56% while closing equity gaps by race and

865 ethnicity to ensure all of California's residents meet the 70% goal.³¹ To accomplish this

866 recommendation, the state must increase coordination, analysis, infrastructure,

⁸⁶⁷ investments and resources to ensure California's in-state public and independent

⁸⁶⁸ institutions are able to increase access and credential completion at the level needed

869 (see the Overarching Recommendations for further details).

870

871 As noted earlier, the state of California has a goal that 70% of the adult population, 872 ages 25-64, will have a postsecondary credential–college degree, certificate,

879 Transfer Intersegmental Implementation Committee based on data provided by the California Community Colleges 880 Chancellor's Office, University of California Office of the President and California State University Chancellor's Office. 881 Note that the four year time herizen basing in California for both California State University Chancellor's Office.

874 ³⁰ Student-Ready Strategies. (2023). "Transfer Attainment." Data analysis created for the Associate Degree for 875 Transfer Intersegmental Implementation Committee based on data provided by the California Community Colleges

877 Note that the four-year time horizon begins in Fall 2018 for both Fall 2018 and Spring 2019 entrants.

^{878 &}lt;sup>29</sup> Student-Ready Strategies. (2023). "Transfer Attainment." Data analysis created for the Associate Degree for

⁸⁸¹ Note that the four-year time horizon begins in Fall 2018 for both Fall 2018 and Spring 2019 entrants.

⁸⁷⁵ Transfer Intersegmental Implementation Commutee based on data provided by the California Community Colleges 876 Chancellor's Office, University of California Office of the President and California State University Chancellor's Office.

^{873 &}lt;sup>31</sup> Aligns to AB928's call for "(D) Annual goals to meet the statewide degree attainment goal of 70 percent."

industry-recognized certification, or other credential of value-by 2030.³² At this time,
California's postsecondary attainment rate is 56%.³³ Achieving a 14% increase in the
statewide attainment rate requires seeking to achieve, and intentionally monitoring, the
following annual increases:

886

887

Year	Attainment Rate
2023	56%
2024	58%
2025	60%
2026	62%
2027	64%
2028	66%
2029	68%
2030	70%

888 Table 4: Attainment Increases by Year

889

⁸⁹⁰ Fulfilling the statutory duty to set "Annual goals to meet the statewide degree ⁸⁹¹ attainment goal of 70 percent" required reviewing data and research on topics such as ⁸⁹² historical trends in credential production, current outcomes, and projections for ⁸⁹³ meeting the 70% by 2030 goal.³⁴ The AB928 Committee's analysis revealed that the ⁸⁹⁴ state cannot meet the goal through the efforts of in-state public and private institutions ⁸⁹⁵ of postsecondary education alone. Hard work by a variety of entities will be required,

⁹¹⁰ ³² See, for example, Office of Governor Newsom. (n.d.) "California Blueprint." Retrieved August 1, 2023, from **911** https://www.gov.ca.gov/wp-content/uploads/2022/01/Higher-Education-Fact-Sheet.pdf

 ^{907 &}lt;sup>33</sup> Most recently available data is from 2021; see Lumina Foundation. (2021). A Stronger Nation: Learning Beyond
 908 High School Builds American Talent. Retrieved April 19, 2023, from

⁹⁰⁹ https://www.luminafoundation.org/stronger-nation/report/#/progress/state/CA

^{896 &}lt;sup>34</sup> Student-Ready Strategies. (2023, January 26). "Understanding Transfer: Current Research in California."

⁸⁹⁷ Presentation for the Associate Degree for Transfer Intersegmental Implementation Committee. Retrieved April 18,

^{898 2023,} from https://www.ab928committee.org/meetings/january-26-2023; Student-Ready Strategies. (2023).

^{899 &}quot;Goal-Setting Model." Tool created for the Associate Degree for Transfer Intersegmental Implementation Committee 900 based on data provided by the California Community Colleges Chancellor's Office, University of California Office of

⁹⁰¹ the President, California State University Chancellor's Office, Association of Independent California Colleges and

⁹⁰² Universities, and the U.S. Census Bureau; Student-Ready Strategies. (2023). "Historical Credential Production." Data

⁹⁰³ analysis created for the Associate Degree for Transfer Intersegmental Implementation Committee based on data

⁹⁰⁴ provided by the California Community Colleges Chancellor's Office, University of California Office of the President,

⁹⁰⁵ California State University Chancellor's Office, and the Association of Independent California Colleges and 906 Universities.

912 including employers that offer industry-based certifications with labor market value; 913 out-of-state institutions such as the Historically Black Colleges and Universities that 914 have signed transfer partnership Memoranda of Understanding with the CCCs; and the 915 plethora of accredited, online program and degree offerings accessible to California 916 residents.

917

The AB928 Committee is laser-focused on achieving racial equity, and thus
simultaneously calls for closing equity gaps by race and ethnicity while meeting the
70% attainment goal. The intent is for all of the state's populations to see their current
attainment rates increase to 70%. The AB928 Committee recognizes this is <u>an</u>
enormous undertaking that will require significant investment and resources, and
dramatically increased coordination and collaboration. However, state leaders set the
and ensure fair and equitable opportunity. Meeting the goal is imperative and the work
frequired should be undergirded by the appropriate leadership, effort and investment
frequired should be undergirded by the appropriate leadership, effort and investment
frequired should be undergirded by the appropriate leadership.

929 The best baseline data available on current attainment rates, disaggregated by race 930 and ethnicity, comes from Lumina Foundation and critically only focuses on degrees 931 (i.e., does not include non-degree certificates, etc.). Data that includes non-degree 932 certificates, is more finely disaggregated by race and ethnicity, and provides a more 933 holistic picture of how the state can meet its 70% goal is not available at this time. In 934 the absence of better data, the Committee offers the following best-available baseline 935 data to ensure that some data is being monitored while the state continues to build the 936 Cradle to Career data system:

937

Racial and Ethnic Groups, California	2021 Attainment Rate, Age 25-64, Credentials included: graduate or professional degrees, bachelor's degrees, and associate degrees ³⁵
Hispanic	22.6%
Black	38.6%
Asian or Pacific Islander	66.3%
White	57.3%
American Indian or Alaska Native	28.5%

939 Table 5: Baseline Attainment Rates by Race and Ethnicity

940

941

942 Recommendation 3.³⁶ Adopt and monitor the following goal: By 2030, 100% of the

943 entering CCC cohort who intend to (and meet the academic requirements for) transfer

944 will successfully transfer (apply, be admitted and enroll) and will complete a bachelor's

945 degree within four years of transfer at any accredited non-profit institution in- or out- of

946 state. As noted earlier, there is no acceptable level of inequity in transfer student

947 outcomes in California's education system. It should be no harder for a student who 948 begins at a CCC to complete a bachelor's degree as it is for a student who begins at a

949 baccalaureate-granting institution.

950

951 While setting the goals at 100% of the cohort achieving these critical steps in the
952 pipeline is ambitious, the Committee feels strongly that aiming lower would
953 compromise its aspirations. Furthermore, these goals represent the underlying premise
954 of the Master Plan (1960 Donahoe Act). Students are supposed to be able to progress
955 in this way, and have an opportunity for a bachelor's degree in the system.³⁷
956

957 Due to the lack of an intersegmental data system in California, the data needed to 958 track students as they move across the segments is lacking and it is extremely difficult 959 to understand current baseline data for each of these steps. This analysis thus uses data

969 2023, from https://www.luminafoundation.org/stronger-nation/report/#/progress/state/CA

962 https://oac.cdlib.org/view?docld=hb5b69n9fm&brand=oac4&doc.view=entire_text; Legislative Analyst's Office. (2009,

963 November 12). "The Master Plan at 50: Assessing California's Vision for Higher Education." Retrieved August 1,

⁹⁶⁷ ³⁵ Short-term credentials are excluded as those data disaggregated by race or ethnicity are not available. Lumina **968** Foundation. (2021). A Stronger Nation: Learning Beyond High School Builds American Talent. Retrieved April 19,

^{965 &}lt;sup>36</sup> Aligns to AB928's call for "(A) Annual goals for improving transfer attainment needed to meet the state's workforce 966 demands."

 ^{960 &}lt;sup>37</sup> California State Legislature. (1960). California Senate Bill No. 33, 1960 Donahoe Act, Amendment to the California
 961 State Education Code: Sections 22500-22705. Retrieved August 1, 2023, from

^{964 2023,} from https://lao.ca.gov/2009/edu/master_plan_intro/master_plan_intro_111209.aspx

970 from the CCCs related to students enrolling in and transferring out of the CCCs, and
 971 data from CSU and UC related to who applies, gets admitted, enrolls and graduates.³⁸
 972

973 For the AY 16-17 cohort 315,541 students enrolled in the CCCs. Of those, 132,394 had 974 an informed primary educational planning goal including transfer to a four-year 975 institution. Within six years, 61,989 (20% of 315,541 and 47% of 132,394) transferred to 976 any four-year institution (including in- and out-of-state, public/private, proprietary, etc.). 977

978 For transfer to the UC:

- Number of students who had previously attended a CCC who applied for
- ⁹⁸⁰ transfer for AY 2018-2019 to UC: 36,365.³⁹
- Number of those students who were admitted to UC: 27,328.40
- Number of those students who enrolled at UC: 20,479.41
- Number of those students who enrolled and graduated with a bachelor's degree
 within 4 years⁴² of transfer: 17,573.⁴³

985

986 For transfer to the CSU:

- Number of students who had previously attended a CCC who applied for
 transfer for AY 2018-2019 to CSU: 97,410.44
- Number of those students who were admitted to CSU: 77,202.45
- Number of those students who enrolled at CSU: 50,654.46
- Number of those students who enrolled and graduated with a bachelor's degree
- within 4 years⁴⁷ of transfer: 40,697.⁴⁸

1013 Chancellor's Onice, University of California Onice of the President and California State University Chancellor's Onice. 1014 As noted elsewhere, the lack of an intersegmental data system presents serious challenges to understanding transfer 1015 student trajectories and outcomes.

1010 counts could not be constructed in absence of student-level data sharing between UC and CSU.

1008 unduplicated counts could not be constructed in absence of student-level data sharing between UC and CSU.

1006 ⁴¹ AICCU data not available; count assumes students enroll in either CSU or UC, not both.

1003 ⁴³ University of California (2021). "UC Opens Doors for Community Colleges." Retrieved August 8, 2023, from

1004 https://www.universityofcalifornia.edu/sites/default/files/2022-02/uc_transfer_onesheet_2021.pdf

1002 counts could not be constructed in absence of student-level data sharing between UC and CSU. 999 ⁴⁵ AICCU data not available; students who are admitted to both UC and CSU are counted in both numbers;

98 ⁴⁶ AICCU data not available; count assumes students enroll in either CSU or UC, not both.

 ^{1011 &}lt;sup>38</sup> Student-Ready Strategies. (2023). "Transfer Attainment." Data analysis created for the Associate Degree for
 1012 Transfer Intersegmental Implementation Committee based on data provided by the California Community Colleges
 1013 Chancellor's Office, University of California Office of the President and California State University Chancellor's Office.

^{1009 &}lt;sup>39</sup> AICCU data not available; students who apply to both UC and CSU are counted in both numbers; unduplicated

^{1007 &}lt;sup>40</sup> AICCU data not available; students who are admitted to both UC and CSU are counted in both numbers;

^{1005 &}lt;sup>42</sup> Note that the four-year time horizon begins in Fall 2018 for both Fall 2018 and Spring 2019 entrants.

^{1001 &}lt;sup>44</sup> AICCU data not available; students who apply to both UC and CSU are counted in both numbers; unduplicated

¹⁰⁰⁰ unduplicated counts could not be constructed in absence of student-level data sharing between UC and CSU.

^{997&}lt;sup>47</sup> Note that the four-year time horizon begins in Fall 2018 for both Fall 2018 and Spring 2019 entrants.

^{993 &}lt;sup>48</sup> California State University. (n.d.). "CSU Graduation and Continuation Rates Dashboard." Retrieved August 8, 2023, 994 from

 $^{995\} https://tableau.calstate.edu/views/GraduationRatesPopulationPyramidPrototype_liveversion/SummaryDetails?iframe$

⁹⁹⁶ SizedToWindow=true&%3Aembed=y&%3Adisplay_count=no&%3AshowAppBanner=false&%3AshowVizHome=no

1016

1017 Table 6, below, applies these numbers from the UC and CSU to the entering CCC 1018 cohort numbers from CCC (note that these students likely began at a community 1019 college in different academic years, which means this cohort is different from that 1020 submitted by the community colleges). This is an imprecise estimate, but it represents a 1021 good-faith effort to use the best-available baseline data for setting goals in the 1022 absence of an intersegmental data system.

1023

1024

	Public Sector	Public Sector	Additional Transfer
	Minimum (based	Maximum	Opportunities at Any Other
	on CSU data	(based on CSU	In- or Out-of-State Public
	only)	and UC data)	and Private Institutions
Estimated % of CCC	30.9%	42.4%	Unknown, but must be taken
cohort who <u>applied</u> for			into account when
transfer to a California			goal-setting
public 4-year institution			
for AY 18-19			
Estimated % of CCC	24.5%	33.1%	Unknown, but must be taken
cohort who were			into account when
admitted to a California			goal-setting
public 4-year institution			
for AY 18-19			
Estimated % of CCC	16.1%	22.5%	Unknown, but must be taken
cohort who <u>enrolled</u> in a			into account when
California public 4-year			goal-setting
institution in AY 18-19			
Estimated % of CCC	12.9%	18.5%	Unknown, but must be taken
cohort who <u>graduated</u>			into account when
from a California public			goal-setting
4-year institution within 4			
years ⁵⁰			

1025 Table 6: Data Support for Goal-Setting for Transfer Attainment⁴⁹

1026

1027 The AB928 Committee made a good faith effort to set the goals in Table 7 using the 1028 best-available data. The Cradle to Career longitudinal data system created by AB132 is

^{1030 &}lt;sup>49</sup> This table applies the AY 18-19 cohort numbers provided by UC and CSU to the AY 16-17 cohort numbers provided 1031 by CCC. AICCU data not available. This provides an imprecise but still useful estimate.

^{1029 &}lt;sup>50</sup> Note that the four-year time horizon begins in Fall 2018 for both Fall 2018 and Spring 2019 entrants.

1032 expected to improve the availability of intersegmental data.⁵¹ In the interim, the 1033 Committee considered the options available for setting goals:

- One option is to align to available data, which would limit which goals can be
 set.
- Another option, and the path chosen, was to set aspirational and developmental
- <u>goals</u> aligned to what would best support equitable student success.

1038

1039 The goals in Table 7 reflect the Committee's effort to look at best-available data, 1040 estimate some of that which cannot be known (e.g., additional transfer opportunities at 1041 any other in- or out-of-state public and private institutions) and set aspirational, 1042 developmental goals. The AB928 Committee recognizes this is an enormous 1043 undertaking that will require significant investment and resources, and dramatically 1044 increased coordination and collaboration. However, providing equitable opportunity to 1045 transfer students, and supporting them for success, is imperative and the work required 1046 should be undergirded by the appropriate leadership, effort and investment (see 1047 Overarching Recommendations for further details).

1048

1049 An effort to align data and begin to monitor these goals is needed. When more 1050 comprehensive and accurate baseline data is available, the AB928 Committee reserves 1051 the right to modify these targets.

1052

	Goals to reach 2030 (transfer to any accredited non-profit institution in- or out- of state, including AICCU, UC & CSU)
Percent of entering CCC cohort who intend to transfer and meet academic qualifications and <u>apply</u> to transfer to any accredited non-profit institution in- or out- of state	2024: 50% 2025: 55% 2026: 60% 2027: 70% 2028: 80% 2029: 90% 2030: 100%

1053 Table 7: Goals for Increased Transfer Attainment⁵²

1054 ⁵² Earlier, this document notes that an analysis of labor market needs, in- and out-migration, the role of online

1055 education and out-of-state providers, and notably transfer and other means of increasing credentials, is needed to

1056 deepen the state's understanding of what level of postsecondary attainment is needed to meet the state's 70% 1057 attainment goal. This analysis seeks to set aspirational goals but they are not directly tied to meeting the 70%

1058 attainment goal.

^{1059 &}lt;sup>51</sup> California State Legislature. (2021). *Assembly Bill No. 132, Postsecondary education trailer bill*. Retrieved April 18, 1060 2023, from https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220AB132

Percent who meet academic qualifications and apply to transfer and are <u>admitted</u> to any accredited non-profit institution in- or out- of state	2024: 40% 2025: 50% 2026: 60% 2027: 70% 2028: 80% 2029: 90% 2030: 100%
Percent who meet academic qualifications and apply to transfer and are admitted and <u>enroll</u> at any accredited non-profit institution in- or out- of state	2024: 35% 2025: 45% 2026: 55% 2027: 65% 2028: 75% 2029: 85% 2030: 100%
Percent who meet academic qualifications and apply to transfer, are admitted, enroll and <u>complete</u> a bachelor's degree within 4 years of transfer at any accredited non-profit institution in- or out- of state	2024: 25% 2025: 35% 2026: 50% 2027: 60% 2028: 75% 2029: 85% 2030: 100%

1061

1062 <u>Recommendation 4. Adopt and monitor the following goal: By 2030, close regional</u>
1063 <u>opportunity gaps to access ADT pathways by ensuring students can transfer *in their*1064 <u>region and in the major in which they earned their ADT.</u>⁵³ Of note, for its analysis the
1065 AB928 Committee used the regions as defined by California Competes as a neutral
1066 and respected third-party source.⁵⁴ Looking to the future, it would be helpful for the
1067 state if the segments could collaborate to define regions in a common way with respect
1068 to postsecondary education.
</u>

1069

1070 This definition of regional opportunity would be met by achieving the following goals:

- There are sufficient ADTs available to students in every region (including online options);
- Guaranteed admission for ADT earners applies *in the region* (i.e., students will
 not be redirected outside of their region);
- ADT earners are able to transfer with junior standing;
- ADTs offered and accepted in a region will be aligned to workforce demand in the region and statewide, particularly high-wage, high-demand fields, and will

^{1080 &}lt;sup>53</sup> Aligns to AB928's call for "(C) Goals for closing regional opportunity gaps to access ADT pathways."

^{1078 &}lt;sup>54</sup> California Competes. (n.d.). Pathways to Prosperity. Retrieved April 18, 2023, from

¹⁰⁷⁹ https://californiacompetes.org/p2p

1081	not be	e limited by the region's current workforce demand. ADTs will be analyzed
1082	and:	
1083	0	Any ADTs and other associate's degrees that do not result in high
1084		applicability for transfer or a labor market payoff, such as research
1085		suggests is true of the ADT in interdisciplinary studies, will be analyzed for
1086		redesign or elimination. ⁵⁵
1087	0	ADTs not currently in place for high-wage, high-demand fields within the
1088		state, such as in STEM pathways, will be prioritized for creation.
1089		
1090 To m	eet thes	e goals will require intentional and holistic funding for and implementation

1090 To meet these goals will require intentional and holistic funding for and implementation 1091 of a range of strategies that can improve regional opportunities for students and 1092 ensure students have equitable access to non-profit, accredited programs (see 1093 Overarching Recommendations for additional details).

B. SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM) DEGREE PATHWAYS

1096

1097 The California State Legislature called upon the AB928 Committee to propose a new 1098 unit threshold for Science, Technology, Engineering, and Mathematics (STEM) degree 1099 pathways that meet the requirements for admission to the California State University 1100 and the University of California. Specifically, in regards to STEM degree pathways, the 1101 recommendations shall comply with both of the following requirements:

1102	(A) The recommendations shall include sufficient evidence supporting a higher
1103	unit threshold for each STEM degree pathway, including an analysis of colleges
1104	that have succeeded in adopting similar pathways within the 60-unit framework
1105	for lower division units taken at the California Community Colleges.
1106	(B) A recommendation for a differing unit threshold within a STEM degree
1107	pathway shall not recommend a change of more than six units.
1108	
1109	While undertaking its work for STEM degree pathways, the AB928 Committee
1110	operated with a set of guiding premises. They are:
1111	

^{1112 &}lt;sup>55</sup> Tillery, R., Booth, K. & Johnstone, R. (2023). "Transfer, Credentials, and Employment in CA." WestEd and National 1113 Center for Inquiry and Improvement.

- Degrees in STEM are in high demand in California's economy and provide 1114 graduates with opportunities for high-wage careers after graduation.⁵⁶ 1115 Many STEM programs require students to earn a higher number of units 1116 including major preparation in the lower division before they transfer. These 1117 include areas such as Engineering, Physics, and Chemistry programs.⁵⁷ 1118 Higher unit requirements in community college STEM programs generate the 1119 need for greater time to prepare, which costs students time and money on the 1120 path to transfer, making transfer pathways less accessible for students with 1121 limited financial resources. However, adequate preparation in the lower division 1122 also ensures timely graduation for the bachelor's degree. 1123 Increasing the number of college students who earn STEM credentials and enter 1124 STEM careers remains a national priority, as does the need to diversify the 1125 population of STEM workers by race/ethnicity, gender, and socioeconomic 1126 background. Postsecondary STEM credentials lead to some of the highest 1127 paying jobs in the labor market.⁵⁸ 1128 Community colleges serve as an important entry point for those who want to 1129 pursue either a workforce-oriented STEM associate degree or lower-division 1130 coursework leading to transfer to a four-year college in a STEM major. 1131 Low-income students are less likely to enter STEM programs or to transfer in 1132 STEM fields than higher income students, and Black, Latine, and Native 1133 American students are underrepresented in all transfer-level STEM courses in 1134 community colleges. STEM fields have particular barriers to student entry and 1135 progression and different patterns of student underrepresentation than 1136 non-STEM transfer programs.⁵⁹ 1137 Students struggle to navigate STEM program requirements, which require strict 1138 adherence to course sequences. Academic or career advising services are often 1139 under-resourced in community colleges. Students often attend more than one 1140 community college adding to complexities in taking year-long course sequences 1141
- that are common to STEM programs.

1150 ⁵⁷ Student Ready Strategies. (2023). "AB928 STEM Study Group Data Review." Data analysis created for the STEM 1151 Study group of the Associate Degree for Transfer Intersegmental Implementation Committee based on data provided 1152 by the California Community Colleges Chancellor's Office, University of California Office of the President, California

1145 "Promoting Achievement for Community College STEM Students through Equity-Minded Practices." *CBE Life Sci* 1146 *Educ*, 21(2): ar25.

^{1154 &}lt;sup>56</sup> State of California Employment Development Department (2015). *California Labor Market Trends: Science,* 1155 *Technology, Engineering, and Math Jobs in California.* Retrieved April 19, 2023 from

¹¹⁵⁶ https://labormarketinfo.edd.ca.gov/Publications/Trend-Reports/STEM-California-August-2015.pdf

¹¹⁵² Sy the Cameria Community Conges on the case of the President, Cameria Conges and Universities.

 ^{1147 &}lt;sup>58</sup> National Center for Science and Engineering Statistics. (2023.) *Diversity and STEM: Women, Minorities, and* 1148 *Persons with Disabilities 2023. Special Report NSF 23-315.* Alexandria, VA: National Science Foundation. Retrieved
 1149 August 17, 2023, from https://ncses.nsf.gov/wmpd

^{1143 &}lt;sup>59</sup> Wang, X. (2020). On My Own: The Challenge and Promise of Building Equitable STEM Transfer Pathways.

¹¹⁴⁴ Harvard Education Press, https://www.hepg.org/hep-home/books/on-my-own; Varty, A.K. (2022, Summer).

- By all measures, the sheer scale and multi-system nature of the California
- education ecosystem makes problem-solving very complicated. The different
- segments are shaped by differences in resources, capacity, and expectations;
- learners' opportunities are shaped in part by the differing levels of preparationprovided by different high schools.
- The work of creating seamless, equitable STEM transfer pathways for
- underrepresented students has many challenges and requires long-term
- commitment, but there is much progress to celebrate and an infrastructure to
- leverage and strengthen.
- 1166
- 1167

Additional Information and Caveats

1168

1169 High-Unit STEM Pathways: Identification and Caveats

1170 The legislation calls for an analysis that cannot be conducted in the absence of a more 1171 robust data set or information. Despite the limitations, and based on data provided by 1172 the Academic Senate for California Community Colleges, the following STEM programs 1173 were identified as high-unit transfer pathways to both CSU and UC:

- Engineering;
- Chemistry;
- Physics;
- Environmental Science; and
- 1178 Math.

1179 Following the September 18, 2023 public meeting of the AB928 Committee, based on 1180 feedback provided to the committee, the following programs were added to the 1181 previous list as ones possibly in need of flexibility to be able to go up to (but not 1182 beyond) the higher 66-unit threshold:

1183 • Computer Science; and

- Biology.⁶⁰
- 1185

1186 It is important to note that "high-unit" is defined by the number of units required by 1187 the program to adequately prepare students for success, not the programs in which 1188 students accumulate the highest number of units.

1189

^{1191 &}lt;sup>60</sup> Nursing and Information Technology are additional pathways to consider in the future; however, there are not at this 1192 time transfer pathways to UC in Nursing or Information Technology.

1193 How Course Articulation is Currently Conducted

1194 Presently, the course articulation process (i.e., the determination that a community 1195 college course is equivalent to a CSU, UC or AICCU-member course and will therefore 1196 be accepted as meeting a CSU, UC or AICCU-member course requirement) has 1197 separate and differing requirements, processes and procedures by segment. In the 1198 public segments, while general education courses are centrally evaluated for similarity 1199 by the CSU Chancellor's Office (CSUCO) and the University of California Office of the 1200 President (UCOP), those reviews are not coordinated across segments. Therefore, 1201 community colleges must submit the same courses to both CSUCO and UCOP at 1202 different times, with different processes, and based on different standards. This means 1203 that the same community college course may be approved as similar by one segment, 1204 but not the other. Additionally, major preparation courses and any other course 1205 requirements undergo a decentralized course-to-course articulation process for which 1206 each community college must submit courses to each CSU and UC campus for which 1207 they want the course deemed similar. This process is individualized per CSU and UC 1208 campus, and is subject to the determinations of each campus' discipline faculty. The 1209 result is a complex web of course articulations that apply to some campuses, but not 1210 all. This makes it very difficult to establish statewide degree pathways, and, even where 1211 such pathways exist (i.e., the ADT), those pathways are not uniformly accepted across 1212 CSU and UC campuses, or only certain courses within the pathway are accepted. 1213

1214 In order to fulfill the goals set forth in AB928 to improve transfer attainment and ADT 1215 access and completion, in general and particularly for STEM pathways, this 1216 decentralized, campus-specific, and subjective course articulation process must be 1217 replaced with a centralized, campus-agnostic, and objective process.

1218

1219 Data Requests

In February 2023, Student-Ready Strategies (SRS), the data partner for the AB928
Committee, worked with the California Community Colleges Chancellor's Office
(CCCCO) data team to pull outcomes data for STEM programs, based on the definition
of STEM provided by the study group, following several conversations on the topic:

- 1224 1. List of majors that require Calculus 1 AND 1 semester of Physics;⁶¹
- 1225 2. List of high-unit majors within that Calc1/1 semester of Physics (70 or more units)
- including but maybe not limited to Engineering, Public Health, Computer
- Science; and

^{1228 &}lt;sup>61</sup> This is not a requirement of the current TMCs for math, it is an option.

- 1229 3. Disaggregated data on retention/completion (rolled up) on ADTs, Transfer
- Admission Guarantees (TAGs), transfer pathways of CC to UCs and CSUs within the list of STEM majors identified in 1.

1232

1233 SRS then analyzed the data, identified key findings, and presented those findings to 1234 the study group.

1235

1236 In June 2023, the STEM study group asked SRS to make a second data request of the 1237 CCCCO. This data request was further refined and included a different list of STEM 1238 programs than was originally queried (to broaden the focus to outcomes related to all 1239 STEM programs, not just those that are high-unit programs), along with requests for 1240 data on student enrollment, progression, and transfer outcomes in those programs. 1241 The group re-requested data which CCCCO had already advised was unavailable. The 1242 CCCCO indicated that they still do not have a good mechanism available for 1243 differentiating ADTs from the local Associate Degree as a major.

1244 With the above in mind, the AB928 Committee offers the following recommendations, 1245 research and rationale.

1246

Recommendation 5. Establish and resource an Intersegmental Course Articulation and
Pathways Development infrastructure to oversee the process of course review,
pathways development, and determinations of similarity, with intentional participation
of faculty from CCC, CSU, UC and AICCU member institutions to maximize the
potential of the ADT and its guarantee of admissions at participating four-year
universities.⁶² AB928 calls for this Committee to strengthen "the [ADT] pathway for
students and to ensure it becomes the primary transfer pathway in California between
campuses of the California Community Colleges and the University of California, the
California State University, and participating independent institutions of higher
California higher education as well as independent institutions is critical.

1259 As described above in the section entitled "How Course Articulation is Currently
1260 Conducted," in order to fulfill the goals set forth in AB928 to improve transfer
1261 attainment and ADT access and completion, in general and particularly for STEM
1262 pathways, the current decentralized, campus-specific, and subjective course articulation
1263 process must be replaced with a centralized, campus-agnostic, and objective process.
1264 The AB928 Committee thus recommends the state establish and resource an

1267 rnia%20and%20outside%20the%20state

^{1265 &}lt;sup>62</sup> California Community Colleges. (n.d.). "Associate Degree for Transfer." Retrieved November 2, 2023, from 1266 https://icangotocollege.com/associate-degree-for-transfer#:~:text=What%20is%20an%20Associate%20Degree,Califo

1268 Intersegmental Course Articulation and Pathways Development infrastructure to 1269 oversee the process of course review, pathways development, and determinations of 1270 similarity.

1271

1272 An intersegmental infrastructure for ongoing collaboration among discipline faculty 1273 must be supported with resources to grow with the goal that STEM pathways are 1274 streamlined and do not include excess units or repetition of courses.

1275

1276 This infrastructure should: provide accountability for ensuring that work is being 1277 completed; include faculty from UC, CSU, CCC and AICCU institutions; be designed to 1278 ensure that diverse and sufficiently representative faculty participation is incentivized, 1279 both through the provision of resources and through formal recognition of faculty 1280 participation in intersegmental curricular work in promotion and tenure; and incentivize 1281 student participation.

1282

1283 Recommendation 6. Retain the 60-unit requirement for ADTs while providing an option 1284 for up to an additional 6 units for high-unit STEM ADTs and require the submission of 1285 clear evidence and rationale for the higher units during the TMC approval process. 1286 Research demonstrates that students are more likely to complete postsecondary 1287 credentials when they have clarity about which courses to take, pathways are 1288 streamlined, the taking of extra courses that do not apply to completion is eliminated, 1289 and courses are applied to completion upon transfer.⁶³ Based on this research, the 1290 AB928 Committee recommends that the large majority of ADTs should remain at 60 1291 units. While some stakeholders assert that some ADTs–particularly STEM ADTs–warrant 1292 an additional 3-6 units, data to support that assertion is not yet available. A preliminary 1293 analysis of high-unit STEM programs conducted through the existing infrastructure of 1294 the Faculty Discipline Review Groups (FDRGs)⁶⁴ and informed by ongoing collaboration 1295 of discipline faculty in specific programs has commenced this fall. The goal is to deliver 1296 insights and recommendations to the Intersegmental Curriculum Council (formerly the 1297 Intersegmental Curriculum Workgroup) by early spring and share that information with

¹³⁰⁰ ⁶³Zhu, Z. (2022, July). "Improving Graduation Rates in the Two-to-Four Pathway to Bachelor's Degrees." Education
1301 Finance and Policy, 17 (3): 432–453; Scrivener, S., Weiss, M.J., Ratledge, A., Rudd, T., Sommo, C. and Fresques, H.
1302 (2015). Doubling Graduation Rates: Three-Year Effects of CUNY's Accelerated Study in Associate Programs (ASAP)
1303 for Developmental Education Students. MDRC. New York, NY; Levesque, E.M. (2018). Improving Community College
1304 Completion Rates by Addressing Structural and Motivational Barriers. Brookings. Retrieved November 2, 2023, from

¹³⁰⁵ https://www.brookings.edu/articles/community-college-completion-rates-structural-and-motivational-barriers/;

 ¹³⁰⁶ Monaghan, B. & Attewell, P. (2015). The Community College Route to a Bachelor's Degree. Educational Evaluation
 1307 and Policy Analysis, 37(1), 70–91; Institute for College Access and Success. (2021). Raising College Attainment: A

¹³⁰⁸ National Proposal to Scale Student Success Strategies. Retrieved November 2, 2023, from

¹³⁰⁹ https://ticas.org/wp-content/uploads/2021/04/Raising-College-Attainment-A-National-Proposal-to-Scale-Student-Succ 1310 ess-Strategies.pdf.

^{1298 &}lt;sup>64</sup>FDRGs are a collaboration between CCC and CSU discipline faculty, led by the Academic Senate for California

¹²⁹⁹ Community Colleges (ASCCC). See www.asccc.org for additional details.

1311 the AB928 Committee. Going forward, additional analysis will be needed to evaluate1312 the pathways of STEM students to understand whether they are meeting with equitable1313 outcomes.

1314

1315 Recommendation 7. Require that by the end of the 2023-24 academic year, Transfer
1316 Model Curricula (TMC) drafts are in place for each of Engineering, Biology, Chemistry,
1317 Mathematics, Environmental Science, Physics, and Computer Science pathways that
1318 prepare students for transfer to both the CSU and UC systems and other four-year
1319 institutions that choose to participate (such as members of AICCU and HBCUs currently
1320 engaged with the CCCCO). Should a discipline or major not yield to a single transfer
1321 pathway, clear rationale and evidence on why separate pathways are needed must be
1322 provided. The AB928 Committee recommends TMC drafts are approved through the
1323 existing, well-established TMC approval processes, while allowing for flexibility for
1324 some general education courses to be taken after transfer, and up to an additional six
1325 units for the ADT provided sufficient evidence and justification are provided.

1327 <u>Recommendation 8. Set a deadline that the CCCs must adopt the TMCs (as created in</u>
1328 <u>Recommendation 7) and create ADTs, and encourage the CSU and UC systems, and</u>
1329 <u>other four-year institutions that choose to participate (such as members of AICCU and</u>
1330 <u>HBCUs currently engaged with the CCCCO), to accept those ADTs for transfer so that</u>
1331 <u>students are accessing the ADTs by fall of 2026.</u> Once pathways are designed by
1332 discipline experts, institutions that agree to accept the ADT must accept and apply all
1333 of the components of the curriculum. Any requests for exceptions must be made
1334 publicly and through a robustly documented process of justification.

Recommendation 9. Make clear that general education flexibility for STEM pathways is allowed and may be required for the creation of equitable pathways in some STEM required for the creation of equitable pathways in some STEM requires that more of the major preparation courses are taken some STEM majors requires that more of the major preparation courses are taken is earlier in the students' learning journey, which necessitates some general education requires are taken in the latter two years of the program. STEM programs need requires the curricular scope and sequence a first-year student at the university will receive. As such, STEM TMCs need to be designed with flexibility.

1349

Recommendation 10. To support equitable student success in STEM pathways, invest in the scaled implementation of culturally responsive student supports and evidence-based academic/pedagogical improvements. The long-term goal of creating equitable STEM pathways will be reached not only through the elimination of excess scaling of culturally responsive, asset-minded approaches to supporting students and scale on the widespread adoption of evidence-informed approaches to creating equitable comprehensive advising for students interested in STEM majors, and the creation of high-quality bridge programs for both CCC students and students at the public and private universities in the state. Effective student participation in informing the design affect of programs, and a scaled commitment to equity-minded pedagogy and curricular scaling, are also necessary for the creation of equitable STEM pathways.

1364 <u>Recommendation 11. Require transparency concerning membership and composition</u>
1365 <u>of the FDRG's and other intersegmental curriculum groups.</u> This recommendation is
1366 designed to address concerns about whether faculty representation in the FDRGs is
1367 reflective of the student body in California. Transparency about current membership
1368 will help stakeholders to assess whether changes are warranted.

1369

- 1370 Recommendation 12. In light of the relevance of AB1291: University of California
 1371 Associate Degree for Transfer Pilot Program (2023) to the goals of the AB928
 1372 Committee, require AB1291 to be implemented in meaningful collaboration with the
 1373 CCCs, and that pathways developed in response to AB1291 adhere to the
 1374 recommendations of the AB928 Committee regarding STEM TMCs. Assembly Bill 1291
 1375 (2023) creates the University of California Associate Degree for Transfer Pilot Program
 1376 in the Donahoe Higher Education Act⁶⁵:
 1377 The bill would require the University of California, Los Angeles to declare at least
- 1378 8 majors by the 2026–27 academic year, and at least 12 majors by the 2028–29 1379 academic year, as similar to the transfer model curricula from select community
- academic year, as similar to the transfer model curricula from select communitycolleges chosen by the University of California, Los Angeles and would require,
- by the 2028–29 academic year, the University of California to designate at least
- 1382 5 campuses to declare at least 12 majors as similar to the transfer model
- curricula from select community colleges chosen by the applicable campus,
- except that the 12 major minimum would not apply to the University of
- 1385 California, Merced if designated. The bill would require the applicable campus
- to prioritize admission of a student who earns an associate degree for transfer

¹³⁸⁷ ⁶⁵ California State Legislature. (2023). *Assembly Bill No. 1291, University of California Associate Degree for Transfer* **1388** *Pilot Program.* Retrieved November 2, 2023, from https://legiscan.com/CA/text/AB1291/2023

and meets the requirements of one of the transfer model curricula and to

- determine the appropriate admissions preference. The bill would require, for a
- student who meets those requirements and other University of California
- admission requirements but is not granted admission to the applicable campus,
- that campus to redirect the student to other campuses of the University of
- California and the student to be offered admission to at least one other campus
- of the University of California.
- 1396

1397 Given the direct relevance of AB1291 to the work of the AB928 Committee, the 1398 Committee calls for AB1291 to be implemented in accordance with the Committee's 1399 recommendation to retain the 60-unit requirement for ADTs, with an option for up to 1400 an additional 6 units for high-unit STEM ADTs upon certification of clear evidence or 1401 rationale of need.

1402

1403 1404

C. REENGAGEMENT OF ADT EARNERS

1405 The California State Legislature called upon the AB928 Committee to specifically 1406 identify how to support reengaging ADT earners who do not transfer or apply for 1407 transfer into a four-year postsecondary educational institution.

1408

1409 While undertaking its work on reengaging ADT earners, the AB928 Committee 1410 operated with a set of guiding premises. They are:

1411

The majority of students who start at a California community college with the
 intent to transfer do not go on to earn a baccalaureate degree, adding to the
 ranks of the nearly 1.8 million Californians with some college, but no degree.⁶⁶
 PPIC found that 28,000 students, representing 27% of all students who started
 their community college journey between academic years 2014–15 and 2019–20
 and earned an ADT, had not transferred as of fall 2022.⁶⁷ The AB928 legislation

^{1421 &}lt;sup>66</sup> Johnson, H., & Cuellar Mejia, M. (2020). Increasing Community College Transfers: Progress and Barriers.

¹⁴²² Public Policy Institute of California. Retrieved April 18, 2023, from

¹⁴²³ https://www.ppic.org/wp-content/uploads/increasing-community-college-transfers-progress-and-barriers-september-2

^{1424 020.}pdf; Lumina Foundation (2022). A Stronger Nation: Learning Beyond High School Builds American Talent.

¹⁴²⁵ Retrieved April 19 from https://www.luminafoundation.org/stronger-nation/report/#/progress/state/CA

^{1418 &}lt;sup>67</sup> Cuellar Mejia, M., Johnson, H., Perez, C.A. & Jackson, J. (2023). Strengthening California's Transfer Pathway.

¹⁴¹⁹ Public Policy Institute of California. Retrieved October 27, 2023, from

¹⁴²⁰ https://www.ppic.org/publication/strengthening-californias-transfer-pathway/

- identifies that students who earned ADTs but did not transfer represent a key
 target for reengagement.⁶⁸
- Ensuring more students who complete the ADT, and improving the transfer
- function overall-ensuring students can start at a community college, earn the
- ADT and complete a bachelor's degree at a public or independent institution-is absolutely essential to ensuring more California residents have the opportunity for a living wage job.⁶⁹
- Opportunity gaps in regional ADT access create an insurmountable barrier for
 many students who wish or need to stay within their regions. Evidence shows,
 for example, that roughly one in 10 "redirected" transfer students enroll at a
 CSU, and so there must be an emphasis on broadening access to transfer
- opportunities within regions.⁷⁰ The regional representation of community college students who enroll with the intent to transfer should be mirrored in the regional representation of students who successfully transfer.
- Californians can complete transfer degrees at institutions other than CSU and
 UC, including California independent institutions and 39 Historically Black
 Colleges & Universities (HBCU) ⁷¹
- 1442 Colleges & Universities (HBCU).⁷¹
- There is a robust research base illuminating why students who are prepared for
 transfer do not necessarily do so, ranging from financial needs to the complexity
 of, and lack of clear information about, the transfer and articulation process.
- That research base should be leveraged for designing supports for ADT earners who do not apply for transfer.
- The state of California is home to many regional initiatives with transfer
- components from which important lessons can be learned. UC Riverside,
- 1450 Growing Inland Achievement and the Riverside County Education Collaborative
- are planning to develop "a pilot transfer pipeline that would automatically
- 1452 matriculate students from 12th grade to a partner CCC and then to UCR through
- its Transfer Admission Guarantee program." In a similar vein, a collaboration of
- partners led by the Central Valley Higher Education Consortium is streamlining
- transfer pathways, developing wraparound supports for transfer students, and

1465 https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220AB928 **1461** ⁶⁹ Tillery, R., Booth, K. & Johnstone, R. (2023). "Transfer, Credentials, and Employment in CA." WestEd and National

^{1463 &}lt;sup>68</sup> California State Legislature. (2021). *Assembly Bill No. 928, Student Transfer Achievement Reform Act of 2021:* 1464 *Associate Degree for Transfer Intersegmental Implementation Committee*. Retrieved April 18, 2023, from

^{1461 &}lt;sup>co</sup> fillery, R., Booth, K. & Johnstone, R. (2023). Transfer, Credentials, and Employment in CA. 1462 Center for Inquiry and Improvement

^{1457 &}lt;sup>70</sup> California State University. (2022). *Student Admissions and Impaction Policies Report 2022*. Retrieved April 18, 1458 2023, from

¹⁴⁵⁹ https://www.calstate.edu/impact-of-the-csu/government/Advocacy-and-State-Relations/legislativereports1/Student-Ad 1460 missions-and-Impaction-Policies-Report-2022.pdf

^{1456 &}lt;sup>71</sup> California Community Colleges. (n.d.). "Enroll Now." Retrieved August 10, 2023, from https://icangotocollege.com/

1466	seeking to extend the ADT guarantee to UC Merced. ⁷² Good work is underway		
1467	that can and must be leveraged.		
1468	• Given the growing recognition nationally that states must educate their adult		
1469	populations to meet workforce needs, accompanied by a growing		
1470	understanding of the increasing population of students with some college and		
1471	no credential yet-which at last count numbers 6.6 million individuals in California		
1472	alone-states have been building adult reengagement and Adult Promise (free		
1473	college) initiatives. Examples include: Tennessee Reconnect, Mississippi		
1474	Complete to Compete and Indiana's You Can. Go Back. ⁷³		
1475	• A well-executed statewide reengagement effort that helps returning students		
1476	overcome known barriers will retroactively improve transfer outcomes for past		
1477	cohorts.		
1478			
1479	With these guiding premises in mind, the AB928 Committee offers the following		
1480	recommendations, research and rationale.		
1481			
1482	The California State Legislature called upon the AB928 Committee to specifically		

1482 The California State Legislature called upon the AB928 Committee to specifically 1483 identify how to support reengaging ADT earners who do not transfer or apply for 1484 transfer into a four-year postsecondary educational institution. To that end, the AB928 1485 Committee makes the following recommendations to address the systemic barriers that 1486 are creating obstacles for ADT earners who do not transfer or apply for transfer, with a 1487 keen eye to equitably serving populations not currently served well.

1488

1489 Recommendation 13. Invest in the creation, and assign responsibility for

1490 implementation, of a Transfer Reengagement Initiative for Associate Degree Holders

1491 (TRIAD). There is no silver bullet or single strategy that will improve outcomes for ADT

1492 earners who do not transfer or apply to transfer. As such, the AB928 Committee

1504 Compete. (July 2023). "One Degree Better." Retrieved August 10, 2023, from https://msc2c.org; ReUp Education.

1505 (n.d.). "Leaders in the Future of Higher Ed." Retrieved August 10, 2023, from

^{1507 &}lt;sup>72</sup> Cuellar Mejia, M., Johnson, H., Perez, C.A. & Jackson, J. (2023). Strengthening California's Transfer Pathway.
1508 Public Policy Institute of California. Retrieved October 27, 2023, from

¹⁵⁰⁹ https://www.ppic.org/publication/strengthening-californias-transfer-pathway/

^{1493 &}lt;sup>73</sup> Causey, J., Gardner, A., Pevitz, A., Ryu, M., and Shapiro, D. (April 2023). Some College, No Credential Student

¹⁴⁹⁴ *Outcomes, Annual Progress Report – Academic Year 2021/22.* Herndon, VA: National Student Clearinghouse 1495 Research Center; Weissman, S. (April 2023). "New Report Finds Increase in Students with Some College, No

¹⁴⁹⁶ Credential." Inside Higher Ed. Retrieved August 10, 2023, from

¹⁴⁹⁷ https://www.insidehighered.com/news/students/retention/2023/04/25/some-college-no-credential-cohort-grows;

¹⁴⁹⁸ National Governors Association. (March 2021). *State Strategies to Re-engage Students with Some College and No* 1499 *Degree*. Retrieved August 10, 2023, from

¹⁵⁰⁰ https://www.nga.org/publications/state-strategies-to-re-engage-students-with-some-college-and-no-degree/; State

¹⁵⁰¹ Higher Education Executive Officers. (2018). *The Power of a Promise: Implications and Importance of Adult Promise* 1502 *Programs*. Retrieved September 15, 2023,

^{1503 &}lt;u>https://sheeo.org/wp-content/uploads/2019/02/Adult-Promise-White-Paper-The-Power-of-a-Promise.pdf;</u> Complete 2

¹⁵⁰⁶ https://reupeducation.com/institutions/partner-stories

1510 recommends building a multi-faceted plan that seeks to comprehensively address the 1511 many barriers ADT earners face. Moreover, while the legislation calls for reengaging 1512 students who did not transfer or apply for transfer, the AB928 Committee wishes to 1513 simultaneously reduce the number of students who get close to transferring and then 1514 do not do so. As such, the AB928 Committee calls for the creation of a statewide 1515 Transfer Reengagement Initiative for Associate Degree Holders (TRIAD), a 1516 comprehensive plan that is organized into two overarching areas of focus:

- Strategies to reduce the number of students who get close to transfer and do
 not transfer or apply to transfer; and
- Strategies to reengage students who already hold the ADT and did not transfer or apply to transfer.
- 1521

1522 Area of Focus 1: TRIAD–Strategies to reduce the number of students who get close to 1523 transfer and do not transfer or apply to transfer

- Build a universal student application process: AB928 calls for the California
- 1525 Community Colleges to "place students on the ADT pathway if students declare
- a goal of transfer on their mandatory education plans." The AB928 Committee
- recommends that effort be combined with an effort to allow students to apply
- 1528 for entry into the community colleges and for transfer to eligible bachelor's
- degree-granting institutions at the same time, through a single statewide
- 1530admissions portal that simplifies the admissions process, audits students'1531completion progress, and seamlessly shares student transcripts and financial aid
- information.
- Identify, monitor and make visible the students of focus: Develop a statewide,
 student-level data identification process that can be accessed by each
- 1535 UC/CSU/CCC/AICCU institution to better understand who the students are who 1536 are "near the gate," meaning they have prepared for transfer, or are close to
- doing so, in particular by pursuing completion of an ADT. This would allow
- institutions to directly target and support their successful transfer and/or
- reengagement if they have left without transferring or applying to do so. Ideally,
- each student would be assigned a single, statewide student identification
 number, allowing for far improved data systems and coordination of outreach
 and supports for each student.
- Streamline processes and remove unnecessary barriers: Auto-award the ADT,
 ensure students do not have to apply to graduate or pay graduation fees,
 ensure institutions are not holding transcripts for student debt, reduce barriers
 to certification of Cal-GETC and ensure fees are not charged, and develop
- holistic admissions processes that provide for equitable admissions.

- Study the impact of financial aid: Develop a deeper understanding of financial
 needs for students who have earned the ADT, and for students who are
- re-entering postsecondary, disaggregated by a number of valuable
- 1551 characteristics including race and ethnicity, interest in STEM degrees, and past 1552 education and receipt of credentials.
- Build a regional infrastructure for coordinating admissions (and redirecting if
 needed) across segments and online offerings to ensure placebound students
- can stay in their preferred region.
- 1556

1557 Area of Focus 2: TRIAD–Strategies to reengage students who already hold the ADT 1558 and did not transfer or apply to transfer

- Launch a reengagement campaign: Establish a statewide reengagement
- campaign that is carefully designed for success. While a strong communications plan is central to this effort (and a communications plan is a legislative
- expectation of the AB928 Committee for 2024), this campaign is far more than a marketing effort. The AB928 Committee recommends it be inclusive of:
- Reengagement <u>scholarships</u> that provide reduced or free tuition and fees
 for returning students;
- Bridge programs that support students as they reenter postsecondary
 education;
- Easily accessible <u>coaching</u> services so students can quickly and easily
 receive customized support; and
- <u>Funding levers and metrics</u> that can incentivize institutions' focus on
 increased student enrollment, persistence, and completion.
- 1572

1573 *Of note:* While the AB928 Committee was specifically required to focus on students 1574 who earned the ADT but did not apply for transfer or transfer, the holistic nature of 1575 TRIAD should be leveraged to support students with a large variety of characteristics, 1576 including students who started at four-year institutions and students who left 1577 community colleges without completing an associate degree.

1578

1579 All of the above strategies should be continually monitored, with disaggregated 1580 student outcomes data, to proactively address emerging inequities in student 1581 outcomes.

1582

1583 The TRIAD seeks to address the systemic barriers that are creating obstacles for ADT 1584 earners who do not transfer or apply for transfer, with a keen eye to equitably serving 1585 populations not currently served well. The comprehensive approach of TRIAD is 1586 supported by a wide-ranging research foundation (e.g., research on why students do 1587 not transfer, examples of reengagement campaigns, and strategies to improve 1588 equitable student success).

1589

The need for clarity, simplified processes, and the removal of unnecessary barriers 1591 Despite the creation of guaranteed-transfer pathways such as the ADT and the UC 1592 Transfer Pathways, the transfer system remains unnecessarily complex and contains too 1593 many contingencies to be considered universally accessible.⁷⁴ Tables 2 and 3 in this 1594 document (in the Goals section) demonstrate baseline inequity gaps by race and 1595 ethnicity in transfer attainment at CSU and UC.⁷⁵ Such data reaffirm the need to 1596 simplify the process for ADT earners looking to transfer and provide clear navigation 1597 and ensure there is institutional capacity and program alignment and availability to 1598 enroll students.

1599

1600 A compelling and locally relevant data source is from the RP Group in California. 1601 Researchers at RP Group found that 156,999 students (roughly 8%) of the examined 1602 cohort of transfer students in California were near the transfer gate, meaning that the 1603 students had earned \geq 60 transferable units with a 2.0 GPA, however had not yet 1604 transferred as they were missing transfer-level English and/or math.⁷⁶ Their 1605 comprehensive analysis revealed that students who do not successfully transfer most 1606 often cite four essential factors impacting their transfer capacity:

- University Affordability: How Can I Pay for a Bachelor's Degree?
- School-Life Balance: How Do I Practically Transfer Given My Numerous
 Responsibilities?
- Pathway Navigation: What Steps Do I Take to Transfer?
- Support Network: Who on Campus Cares about My Transfer Success?⁷⁷
- 1612

^{1627 &}lt;sup>74</sup> Student-Ready Strategies. (2023, January 26). "Understanding Transfer: Current Research in California."

¹⁶²⁸ Presentation for the Associate Degree for Transfer Intersegmental Implementation Committee. Retrieved April 18, **1629** 2023, from https://www.ab928committee.org/meetings/january-26-2023

^{1623 &}lt;sup>75</sup> Student-Ready Strategies. (2023). "Transfer Attainment." Data analysis created for the Associate Degree for

¹⁶²⁴ Transfer Intersegmental Implementation Committee based on data provided by the California Community Colleges

¹⁶²⁵ Chancellor's Office, University of California Office of the President and California State University Chancellor's Office. 1626 Note that the four-year time horizon begins in Fall 2018 for both Fall 2018 and Spring 2019 entrants.

^{1619 &}lt;sup>76</sup> Cooper, D., Fong, K., Karandjeff, K., Kretz, A., Nguyen, A., Nguyen, K., Purnell-Mack, R., Schiorring, E. (2017).

¹⁶²⁰ Through the Gate: Mapping the Transfer Landscape for California Community College Students.Retrieved August 10, 1621 2023, from

¹⁶²² https://rpgroup.org/Portals/0/Documents/Projects/ThroughtheGate/Through-the-Gate-Phase-I-Technical-Report.pdf

^{1613 &}lt;sup>77</sup> Cooper, D., Nguyen, A., Nguyen, K., Chaplot, P., Rodriquez-Kiino, D., Kretz, A., Purnell, R., Brohawn, K., &

¹⁶¹⁴ Karandjeff, K. (2020, May). Students Speak Their Truth about Transfer: What They Need to Get Through the Gate. 1615 Retrieved April 23, 2023, from

¹⁶¹⁶ https://rpgroup.org/Portals/0/Documents/Projects/ThroughtheGate/RPGroup_TheTruthAboutTransfer_TTGPhase3_R **1617** 3%5B79%5D.pdf?ver=2020-05-18-171449-773 . Aligned results were found by

¹⁶¹⁸ https://www.wiche.edu/wp-content/uploads/2018/resources/accnPolEx-strategies-for-success.pdf

1630 The RP Group also highlighted that the complexity of, and lack of clear information 1631 about, the transfer and articulation process is a significant barrier to success for transfer 1632 students. Of particular relevance to supporting ADT earners who do not transfer or 1633 apply for transfer, RP Group found that, "Research also shows that even students who 1634 are close to the transfer gate struggle to know what practical steps to take to transfer 1635 and when."⁷⁸

1636

1637 Consistently, the onus of successfully navigating the transfer process is on students. To 1638 address this, the institutions and segments must be ready to serve the students that 1639 need access to baccalaureate degrees the most. This means that they must invest in 1640 designing and implementing streamlined application and on-boarding processes that 1641 minimize bureaucracy and unnecessary fees and create supportive structures that 1642 facilitate students applying for transfer and enrolling. These services and practices must 1643 be visible, accessible, and flexible to meet their needs.

1644

The need to understand and address college affordability and financial aid 1646 A 2023 analysis by PPIC indicated that the cost of tuition and room and board at 1647 four-year institutions is likely an impediment to transfer, which reinforces RP Group's 1648 finding (noted above) that university affordability is a barrier for transfer students.⁷⁹ A 1649 key part of this strategy should include the UC, CSU, CCC and AICCU coordinating 1650 with other key entities such as the California Student Aid Commission (CSAC) to 1651 engage students to better understand the opportunities and barriers in the transfer 1652 process. This is critically important for students of color and other key populations who 1653 are often not served well by our current processes and structures. Such strategies 1654 should include but not be limited to surveys, focus groups and other feedback 1655 opportunities biannually, if not annually to create streamlined and consistent touch 1656 points to assess and improve processes.

1657

1658The need to improve data to and be able to identify and make visible the students in1659need of TRIAD

1660 Given the research demonstrating the need for clear information for students, there 1661 needs to be a centralized data identification process which elevates who these 1662 students are in real time to aid in colleges' awareness and students' success. Such a

1669 https://rpgroup.org/Portals/0/Documents/Projects/ThroughtheGate/RPGroup_TheTruthAboutTransfer_TTGPhase3_R

1670 3%5B79%5D.pdf?ver=2020-05-18-171449-773

^{1666 &}lt;sup>78</sup> Cooper, D., Nguyen, A., Karandjeff, K., Brohawn, K., Purnell, R., Kretz, A., Nguyen, K., Chaplot, P.,

¹⁶⁶⁷ Rodriquez-Kiino, D., Chaplot, P., & Nguyen, K. (2020, May). Students Speak Their Truth about Transfer: What They 1668 Need to Get Through the Gate. Retrieved April 23, 2023, from

^{1663 &}lt;sup>79</sup> Cuellar Mejia, M., Johnson, H., Perez, C.A. & Jackson, J. (2023). Strengthening California's Transfer Pathway.

¹⁶⁶⁴ Public Policy Institute of California. Retrieved October 27, 2023, from

¹⁶⁶⁵ https://www.ppic.org/publication/strengthening-californias-transfer-pathway/

1671 data system must allow disaggregation by key demographic characteristics, including 1672 but not restricted to race/ethnicity, gender, and income. Long-term, this finding should 1673 lead to creating a statewide strategy to manage, maintain and ensure accountability 1674 throughout the ADT reengagement process across all segments. By making students at 1675 or near the gate visible, the segments will be able to dedicate resources to (re)engage 1676 them in the transfer process.

1677

1678 The RP Group also identified that if students do not transfer within the first year of
1679 arriving near the gate, the likelihood they will make this transition reduces
1680 considerably: "Nearly 90% of students who made it through the gate, transferred
1681 within a short period of time."⁸⁰ Given this, it's clear timing matters. Reengagement
1682 strategies must encompass reaching students during this critical time frame.
1683

The need for culturally responsive strategies that meet students where they are TRIAD should be shaped in culturally-responsive ways to ensure it resonates with students identified by the data as most likely to not apply for or transfer, including team of color, low-income, first-generation and non-traditional age students. A team of color, low-income, first-generation and non-traditional age students. A team of color, low-income, for low-income, first-generation, non-traditional age students and students of color needs to be at the center of this campaign, with the answers to specific questions such as: How will this work for me? Who can help me the succeed? Furthermore, set-oriented concepts, such as a sense of belonging, inclusion, and familism need to the integrated in the messaging campaign. The campaign should also be intentional the about going to where opportunity-seekers are, such as workplaces, job centers, and the various community-oriented organizations (faith-based organizations, libraries, etc.), the and centering their lived experiences.

1697 1698

The need to help students stay in region

1699 Several studies report that community college students are more likely to stay close to 1700 home than their peers. Therefore, having access to a college in the region is a matter 1701 of necessity, allowing students to meet their familial, financial and work

1702 responsibilities.⁸¹ However, statewide, there are more incomplete regional ADT

1704 American Council on Education. Retrieved June 21, 2023 from

 ^{1709 &}lt;sup>80</sup> Cooper, D., Fong, K., Karandjeff, K., Kretz, A., Nguyen, A., Nguyen, K., Purnell-Mack, R., Schiorring, E. (2017).
 1710 Through the Gate: Mapping the Transfer Landscape for California Community College Students. Retrieved August
 1711 10, 2023, from

¹⁷¹² https://rpgroup.org/Portals/0/Documents/Projects/ThroughtheGate/Through-the-Gate-Phase-I-Technical-Report.pdf

^{1703 &}lt;sup>81</sup> Hillman, N. & Weichman, T. Education Deserts: The Continued Significance of "Place" in the Twenty-First Century.

¹⁷⁰⁵ https://www.acenet.edu/Documents/Education-Deserts-The-Continued-Significance-of-Place-in-the-Twenty-First-Cent

¹⁷⁰⁶ ury pdf; Carter, J. (Aug. 17, 2016). "College Students Prefer to Stay Close to Home, Data Finds." *Higher Ed Dive.* 1707 Retrieved June 21, 2023 from

¹⁷⁰⁸ https://www.highereddive.com/news/college-students-prefer-to-stay-close-to-home-data-finds/424594/; Wozniak, A.

1713 pathways between the community colleges and the California State University than 1714 there are complete pathways that offer both the community college and university 1715 curriculum in a given region and program of study.⁸²

1716

1717 It is thus critical to address the capacity of institutions to serve students in their region,
1718 which is a critical theme in the Goals section of this document as well.⁸³ Systems and
1719 institutions must prioritize:

- Facilitating students' access to their campus of choice, and addressing major
 impaction issues, to prioritize reengagement applicants/students to ensure they
 have a seat at their top choice institutions, particularly within their home regions;
- Aligning admissions cycles to eliminate students facing different standards for
- when they enroll vs. when they are ready to transfer;
- Addressing physical barriers to transfer for place-bound students through cross
 enrollment opportunities and expanded online offerings;
- Partnering with AICCU and its member institutions to sign MOUs to accept and apply ADTs to completion (with their articulation guarantees), as a way to address capacity and regional constraints and reduce the need for admissions redirection;
- Establishing shared courses and programs in partnership across four-year colleges and universities and community colleges in underserved regions; and
- Ensuring returning students are able to develop meaningful and sustained
 relationships with staff and faculty to be able to persist and succeed in higher
 education. Failing to support returning students will result in perpetuating
 existing inequities.
- 1737
- 1738

Examples from which to learn

1739 Indiana provides just one example of a statewide strategy to reengage students. In
1740 2015 Indiana passed legislation that helped launch the Indiana Commission for Higher
1741 Education's initiative "You Can. Go Back." The legislation required public universities to
1742 reach out to former students who hadn't graduated, and institutions that didn't have

1747⁸² Student-Ready Strategies. (2023). "Regional Associate Degree for Transfer Analysis." Data analysis created for the 1748 Associate Degree for Transfer Intersegmental Implementation Committee based on data from the California

1750 Retrieved April 18, 2023, from

^{1752 (}March 22, 2018). "Going Away to College? School Distance as a Barrier to Higher Education." *Econofact*, University 1753 of Notre Dame. Retrieved June 21, 2023 from

¹⁷⁵⁴ https://econofact.org/going-away-to-college-school-distance-as-a-barrier-to-higher-education

¹⁷⁴⁹ Community Colleges Chancellor's Office and the California State University Transfer Model Curriculum website.

¹⁷⁵¹ https://www.calstate.edu/attend/degrees-certificates-credentials/Pages/TMC-Search.aspx#page-2

^{1743 &}lt;sup>83</sup> California State University. (2022). *Student Admissions and Impaction Policies Report* 2022. Retrieved April 18, 1744 2023, from

¹⁷⁴⁵ https://www.calstate.edu/impact-of-the-csu/government/Advocacy-and-State-Relations/legislativereports1/Student-Ad

¹⁷⁴⁶ missions-and-Impaction-Policies-Report-2022.pdf

1755 the capacity to handle the outreach could lean on the commission for support. Working 1756 with the universities to find email and mailing addresses, the commission launched a 1757 marketing strategy to reach out to students who had dropped out within the last 1758 decade and who had earned at least 25% of their credits.⁸⁴ Similarly, researchers from 1759 the *Going the Distance in Adult College Completion: Lessons from the Non-traditional* 1760 *No More Project* analyzed strategies from six states that sought to reengage adult 1761 learners. Recommended promising strategies included broad public outreach 1762 campaigns, reentry concierges or coaches, and flexible course scheduling.⁸⁵

1764 There are also numerous national initiatives from which California can learn, including 1765 Degrees When Due, Credit When It's Due, and Project Win-Win.⁸⁶ Lessons learned 1766 from these projects include that reenrollment processes require a holistic approach, 1767 including: implementing policies and practices such as academic advising; addressing 1768 institutional holds; and ensuring access to robust student supports that include and 1769 non-academic support needs.⁸⁷

1770

1771 Of note, AB928 similarly calls for a focus in 2024 on a "comprehensive communications 1772 plan and guidance on student-centered outreach to inform students about the ADT 1773 pathway," recognizing the critical nature of clear information for transfer students. The 1774 work in 2024 on a communications plan, and further development of a reengagement 1775 campaign, should be pursued together.

1776

1777 1778

D. OVERARCHING NEEDS TO MEET THE INTENT OF AB928

1779 Following over a year of meetings, discussion and analysis, the AB928 Committee
1780 concluded that the only way to actually deliver on the promise of these
1781 recommendations is to call for a dramatically changed postsecondary policymaking
1782 environment in California. The following overarching recommendations, with aligned
1783 research and rationale, are designed to create the conditions that are absolutely

^{1791 &}lt;sup>84</sup> Quinn, S. (2020, January 27). "More Indiana Adults Returning to College to Finish Degrees." WFYI Public Media.
1792 Retrieved August 10, 2023, from

¹⁷⁹³ https://www.wfyi.org/news/articles/more-indiana-adults-returning-to-college-to-finish-degrees

^{1788 &}lt;sup>85</sup> Lane, P., Michelau, D. K., & Palmer, I. (2012a, June). *Going the Distance in Adult College Completion: Lessons* 1789 *from the Non-traditional No More Project*. Retrieved August 10, 2023, from

¹⁷⁹⁰ https://www.wiche.edu/wp-content/uploads/2018/resources/ntnmStateCaseStudies.pdf

^{1786 &}lt;sup>86</sup> https://occrlarchive.web.illinois.edu/cwid.html

¹⁷⁸⁷ https://www.ihep.org/initiative/project-win-win/

^{1784 &}lt;sup>87</sup> Davis, L., Poca, J., and Santos, J. (2022). *The Degree Reclamation Playbook*. Institute for Higher Education Policy.

¹⁷⁸⁵ Retrieved September 16, 2023, https://www.ihep.org/wp-content/uploads/2022/01/IHEP_DWD_Playbook.pdf

1794 necessary if these recommendations are to succeed, and the intent of the AB928 1795 legislation is to be met.

1796

1797 <u>Recommendation 14. Permanently establish within state structures, and resource with</u> 1798 <u>on-going funding, a Higher Education Intersegmental Council.</u> This Council's make-up 1799 should include students, senior administrative and academic senate leaders from all of 1800 the segments, K12 representatives, workforce experts and equity advocates (mirroring 1801 in many ways the representation on the AB928 Committee), and should seek to meet 1802 the following goals:

- Develop a detailed plan, that outlines the roles and responsibilities of each
- segment, for how the state will increase credential production and transfer
- attainment to meet the state's 70% attainment goal, while closing equity gaps,particularly by race and ethnicity, income and region;
- Build statewide infrastructure for intersegmental coordination and collaboration,
 breaking down existing siloes;
- Create a new venue for addressing policy barriers, responding to new policies,
 and aligning and streamlining resources and investments;
- Assess educational program alignment to workforce demand and engage
 industry to align education and training programs;
- Develop a shared definition of regional service areas and alignment of equitable
 opportunity;
- Deepen understanding of student affordability through collaboration with critical
 entities such as the California Student Aid Commission (CSAC) and aligned
 affordability efforts such as college savings accounts and Free Application for
- 1818 Federal Student Aid (FAFSA) for All; and
- Provide oversight for efforts recommended by the AB928 Committee, such as
 the Intersegmental Course Articulation and Pathways Development
- infrastructure, the monitoring of goals, and the Transfer Reengagement Initiative
- 1822 for Associate Degree Holders (TRIAD).

1823

1824 As the AB928 Committee considered each legislative requirement, a recurring theme
1825 emerged: the need for long-term commitment across the segments of higher
1826 education in California to engage in the ongoing problem-solving required for
1827 successfully removing barriers to equitable opportunities and outcomes for transfer
1828 students.

1829

1830 Since the dissolution of the California Postsecondary Education Commission (CPEC) in 1831 2011, California has lacked a mechanism for true intersegmental coordination.⁸⁸ At the 1832 moment, each segment makes the majority of its own policy in siloes. Informal and 1833 voluntary venues exist, such as the Intersegmental Coordinating Committee, but 1834 achieving the 70% goal will require a much higher level of authority, commitment and 1835 resources.

1836

The AB928 Committee recognizes that the work of achieving equity for transfer 1838 students, as called for by AB928, and reaching the state's goal that 70% of the adult 1839 population will have a postsecondary credential by 2030, is not work that can be 1840 accomplished through legislation or through any simple solution or 'magic bullet.'⁸⁹ 1841 Real progress for students will be made only to the extent that stakeholders from 1842 across the segments are supported to engage in the long-term work of building and 1843 maintaining clear and equitable pathways for transfer students. Transfer student 1844 success is everyone's work and while there is much effort to recognize and achievement 1845 to build on, there is a long road ahead that will require durable commitment to 1846 intersegmental collaboration from stakeholders at every level. While a wide range of 1847 key stakeholders, including faculty, staff, and administrators, are implicated in this 1848 long-term work, the AB928 Committee also recognizes the necessity of ensuring 1849 effective participation of students. Elevation of student voice and perspective is 1850 embedded into this ongoing collaborative work.

1851

1852 In particular, a new Higher Education Intersegmental Council should be charged with 1853 advancing the AB928 Committee's goal for <u>a new vision for transfer and articulation in</u> 1854 <u>California that supports students in transferring from "one to all,"</u> meaning the 1855 infrastructure for faculty to design pathways would seek to provide students with 1856 maximum clarity and simplicity, ideally being able to easily and seamlessly transfer 1857 from one college or university to all of the California public and independent 1858 institutions. California is one of only 16 states that does not have a statewide 1859 guaranteed transfer of an associate degree.⁹⁰ While this is a massive undertaking,

- 1869 Legislative Analyst's Office. (2003, January). CPEC: A Review of Its Mission and Responsibilities. Retrieved August
- 1870 1, 2023, from https://lao.ca.gov/2003/cpec/CPEC_0103.pdf; Governor's Office of Planning and Research. (2018). The

1861 Commission of the States. Retrieved August 10, 2023, from

¹⁸⁶⁵ ⁸⁸ Observers suggest that CPEC was dissolved due to issues with its design, such as its charge "to serve both as a **1866** part of the state's higher education infrastructure and as an objective analyst of it." However, nearly every other state **1867** in the country has a functioning coordinating or governing body for postsecondary education. An expert study is **1868** needed to design a coordinating entity that learns from the lessons of the past. See for example California

¹⁸⁷¹ Master Plan for Higher Education in California and State Workforce Needs: A Review. Retrieved August 3, 2023, from 1872 https://opr.ca.gov/docs/20181226-Master_Plan_Report.pdf

^{1863 &}lt;sup>89</sup> See, for example, Office of Governor Newsom. (n.d.) "California Blueprint." Retrieved August 1, 2023, from

¹⁸⁶⁴ https://www.gov.ca.gov/wp-content/uploads/2022/01/Higher-Education-Fact-Sheet.pdf

^{1860 90} Whinnery, E., & Peisach, L. (2022, July). 50-State Comparison: Transfer and Articulation Policies. Education

¹⁸⁶² https://www.ecs.org/50-state-comparison-transfer-and-articulation/

1873 starting with the highest volume majors could help to serve a significant proportion of 1874 students in the short run while creating a workable process that could be scaled to 1875 other majors. This is an effort that will take time, but it has been accomplished in other 1876 states and there is no reason California cannot, with time, effort and resources, achieve 1877 it as well.⁹¹

1878

1879 Of note, this effort should align with and support the forthcoming recommendations 1880 from the <u>Common Course Numbering Task Force</u>, which similarly include a strong call 1881 for developing a process for intersegmental, statewide course articulation acceptance 1882 of California Community College (CCC) courses that are commonly numbered (in 1883 response to Assembly Bill No. 1111 (2021).⁹²

1884

1885 If the postsecondary segments can begin to coordinate and collaborate in a new way,
1886 the state can achieve a new macro-level approach to policy development, review,
1887 refinement and continuous improvement. The goal is to intentionally connect the dots
1888 across the magnitude of legislation, initiatives and investments in play across the state.
1889

1890 <u>Recommendation 15. Invest in the accelerated completion of the Cradle-to-Career</u> 1891 <u>data system, with active participation of representatives from the four segments of</u> 1892 <u>higher education to inform data and information needs.</u> Ensure that the data system 1893 can provide ongoing monitoring of the goals and activities outlined by the AB928 1894 Committee, and provide, at a minimum, data and analysis that is finely disaggregated 1895 by race and ethnicity (e.g., disaggregated by subpopulation within groups such as 1896 Asian), income, and region of at least the following metrics and areas of analysis:

- Outcomes for transfer students who start at community colleges, including data on who gets prepared for transfer, finishes the ADT, applies to transfer, is accepted for transfer, enrolls and then completes the bachelor's degree (and other credentials);
- Outcomes for transfer students who start in four-year institutions and transfer to other institutions (e.g., to community college colleges, other four-year institutions, etc.), including data on who applies to transfer, is accepted for transfer, enrolls and then completes credentials;

1912 https://www.ecs.org/50-state-comparison-postsecondary-governance-structures/; Bishop, B., Heckert, K. (2022).

^{1908 &}lt;sup>91</sup> While California cannot look to another state as a "model," many states have valuable coordinating bodies in place 1909 and there are important resources that could be leveraged to build the right fit for California's context. See, for 1910 example, Pechota, D., Fulton, M., Broom, S. (2020). "50-State Comparison: State Postsecondary Governance 1911 Structures." Education Commission of the States. Retrieved August 8, 2023,

¹⁹¹³ Membership Report, FY 2021. State Higher Education Executive Officers. Retrieved August 8, 2023,

¹⁹¹⁴ https://sheeo.org/wp-content/uploads/2022/08/SHEEO_FY21_Membership_Report.pdf

^{1905 &}lt;sup>92</sup> California State Legislature. (2021). Assembly Bill No. 1111, Postsecondary education: common course numbering 1906 system. Retrieved August 2, 2023, from

¹⁹⁰⁷ https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220AB1111

- Total time and units to degree for transfer students;
- Labor market outcomes for transfer students;
- The effects of impaction/redirection;
- Intra- and inter-regional transfer patterns;
- Intersectional identities of transfer students and related success patterns; and
- Credits that are unusable or repeated in the transfer process.
- 1921

The lack of an intersegmental data system in California seriously constrained the analysis that the AB928 Committee would have liked to have completed, and made clear the need for the accelerated completion of Cradle to Career, a longitudinal data system created by Assembly Bill 132 (2021). The AB928 Committee looks forward to collaborating with representatives from Cradle to Career to inform the development of metrics, monitoring mechanisms and dashboards related to transfer and credit mobility. In that collaboration, the Committee is eager to encourage Cradle to Career appropriately and finely disaggregate data by race and ethnicity, ensuring that it is possible statewide to better understand the outcomes of, for example, the many subgroups of populations often grouped together as Asian. Given the state's dire need progress toward the creation and mobilization of Cradle to Career.⁹³

1935 Relatedly, the AB928 Committee was called upon to set goals for improved and 1936 equitable transfer, but the state does not have an ongoing mechanism for monitoring 1937 progress against those goals. Ensuring that the forthcoming Cradle to Career 1938 longitudinal data system is able to produce valuable and actionable analysis and 1939 monitoring of transfer student outcomes is a priority.

1940

1941 <u>Recommendation 16. Commission a comprehensive needs and opportunities</u> 1942 <u>landscape analysis of regional workforce and educational needs, resources, and gaps.</u> 1943 In addition to establishing an intersegmental data system, a comprehensive plan to 1944 meet the 70% attainment goal should be supported by a holistic analysis of factors 1945 such as regional workforce demand, in-out migration, population growth, students 1946 attending out-of-state institutions, institutional capacity and changes needed by 1947 particular dates to meet the goal. Such an analysis has not yet been undertaken in 1948 California (there are other valuable state examples to explore to understand the

¹⁹⁴⁹ ⁹³ California State Legislature. (2021). *Assembly Bill No. 132, Postsecondary education trailer bill.* Retrieved April 18, **1950** 2023, from https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220AB132

1951 stakeholders engaged, data sources used and analysis conducted).⁹⁴ The AB928 1952 Committee thus calls for a comprehensive analysis of postsecondary supply and 1953 demand:

Demand: Collaboration with an entity that has the skills and resources to 1954 1955 conduct a comprehensive analysis of labor market needs, in- and out-migration, the role of online education and out-of-state providers, transfer and other means 1956 of increasing credentials to deepen the state's understanding of what level of 1957 postsecondary attainment is needed to meet the state's economic and 1958 workforce goals and ensure equitable opportunity for all California residents. 1959 This analysis must paint a picture of the level and types of credentials (e.g., how 1960 many Bachelor's in Computer Science) the state needs, aligned to workforce 1961 demand. 1962

- Of note, this analysis should be clear-eyed that the world is changing
 quickly, and it is difficult if not impossible to plan for significant forces
 such as climate change and the evolution of artificial intelligence.
- Supply: A comprehensive analysis of statewide and regional capacity at the
 existing public and private institutions of postsecondary education in California
 to understand: the role of transfer in increasing credential attainment; which
 institutions have additional capacity to step in to support the goals; and the role
 of "impaction" at public universities. This analysis must have a strong regional/,
 localized focus as well as a state lens.
- 1972

1973 <u>Recommendation 17. Provide ongoing, permanent funding for the holistic strategies</u> 1974 <u>needed to ensure that marginalized and historically minoritized students succeed at the</u> 1975 <u>levels required to deliver on the promise of equitable economic mobility and meet the</u> 1976 <u>state's 70% attainment goal, with intentional monitoring of impact to ensure they are</u> 1977 <u>improving outcomes and achieving equity.</u> State leaders–who set the 70% attainment 1978 goal out of recognition for the ways that postsecondary education can improve the 1979 well-being of California's residents and bolster the workforce–must also put in place the 1980 resources and funding needed to ensure students are able to take maximum advantage 1981 of the state's rich postsecondary ecosystem.

1982

- 1985 https://reportcenter.highered.texas.gov/agency-publication/almanac/2021-texas-public-higher-education-almanac/;
- 1986 Massachusetts Department of Higher Education. (2023). *Strategic Plan for Racial Equity*. Retrieved August 8, 2023, 1987 from

1988 https://www.mass.edu/strategic/documents/Massachusetts%20Department%20of%20Higher%20Education%20Strat

1989 egic%20Plan%20for%20Racial%20Equity_Updated_01242023.pdf

^{1983 &}lt;sup>94</sup> See, for example, Texas Higher Education Coordinating Board. (2021). 2021 *Texas Public Higher Education* 1984 *Almanac.* Retrieved August 8, 2023,

1990 To close equity gaps and dramatically improve transfer student success calls for 1991 intentional and holistic implementation of a range of evidence-based strategies, 1992 including but not limited to:⁹⁵

- A. As noted elsewhere, building a new vision for transfer and articulation in 1993 California that supports students in transferring from "one to all," meaning the 1994 infrastructure for faculty to design pathways that seek to provide students with 1995 maximum clarity and simplicity, ideally being able to easily and seamlessly 1996 transfer from one college or university to all of the California public and 1997 independent institutions; 1998 B. Scaling equitable dual admission practices to give students an opportunity for 1999 certainty about their transfer destination; 2000 C. Creating equitable access to dual enrollment programs for students while in high 2001 school; 2002 D. Ensuring faculty and staff represent the diverse backgrounds of California's 2003 students (including key characteristics such as race and ethnicity, income, 2004 geography, gender identity and sexual orientation); 2005 E. Providing faculty with professional development in culturally-responsive 2006 pedagogy; 2007 F. Further partnering with the AICCU and its member institutions to sign 2008 Memoranda of Understanding to accept and apply ADTs to completion (with 2009 their articulation guarantees), as a way to address capacity and regional 2010 constraints and reduce the need for admissions redirection. Explore possible 2011 support, resources, and funding for these efforts, including improved marketing 2012 efforts to ensure students understand the independent sector as a valuable 2013 transfer option; 2014 G. Providing additional advising services with trained professionals; 2015 H. Providing additional career planning and support for workforce preparation; 2016 I. Addressing affordability for transfer students through a collaboration with the 2017 California Student Aid Commission; 2018 J. Implementing community college baccalaureate programs when relevant and 2019
- appropriate;

 ^{2021 &}lt;sup>95</sup>Scrivener, S., Weiss, M.J., Ratledge, A., Rudd, T., Sommo, C. and Fresques, H. (2015). Doubling Graduation Rates:
 2022 Three-Year Effects of CUNY's Accelerated Study in Associate Programs (ASAP) for Developmental Education
 2023 Students. MDRC. New York, NY; Levesque, E.M. (2018). Improving Community College Completion Rates by

²⁰²³ Students. MDRC. New York, NY, Levesque, E.M. (2018). Improving Community College Comple 2024 Addressing Structural and Motivational Barriers. Brookings. Retrieved November 2, 2023, from

²⁰²⁵ https://www.brookings.edu/articles/community-college-completion-rates-structural-and-motivational-barriers/;

²⁰²⁶ Monaghan, B. & Attewell, P. (2015). "The Community College Route to a Bachelor's Degree." Educational Evaluation

²⁰²⁷ and Policy Analysis, 37(1), 70–91; Institute for College Access and Success. (2021). Raising College Attainment: A 2028 National Proposal to Scale Student Success Strategies. Retrieved November 2, 2023, from

²⁰²⁹ https://ticas.org/wp-content/uploads/2021/04/Raising-College-Attainment-A-National-Proposal-to-Scale-Student-Succ 2030 ess-Strategies.pdf.

- 2031 K. Expanding online course offerings and increasing awareness of online offerings
- by all types of institutions including independent institutions, and ensuring
- 2033 online course and program availability is incorporated into all student-facing 2034 transfer communications; and
- L. Establishing shared courses and programs in partnership across four-year
- 2036 colleges and universities and community colleges in underserved regions.

2038 The forthcoming Cradle to Career data system should be leveraged to ensure 2039 intentional, ongoing monitoring of the effect of these strategies, with a particular focus 2040 on their effectiveness in closing equity gaps, with data disaggregated by at least 2041 race/ethnicity, income, age, program and region as well as by the credential levels and 2042 types needed to meet the state's workforce demands.

2043

2044 The AB928 Committee recognizes that many of its recommendations will require new 2045 investment. The Committee is also aware that the state currently faces budgetary 2046 constraints. The Committee's intent is not to just ask for new funding. Wherever 2047 possible, the Committee encourages the segments as well as individual colleges and 2048 universities to intentionally:

- Leverage existing venues and initiatives, such as the Transfer Alignment Project;
- Align to the evidence about what is most effective in achieving equitable
 student outcomes, with the goal of maximizing resources available;
- Consider existing enrollment needs and prioritize better serving transfer
 students as a strategy for financial sustainability; and
- Braid together existing funding streams. For example, the AB928 Committee
 has a particular focus on reengaging ADT earners who did not apply for transfer
 or transfer. Colleges and universities already have state and federal funding to
 support re-enrolling students after the global pandemic which can be a valuable
 resource for serving an overlapping population.
- 2059

2060

SECTION IV: CONCLUSION AND NEXT STEPS

2061 2062

2063 These recommendations represent the culmination of the first 18 months of work for 2064 the AB928 Committee. The Committee offers these recommendations emboldened by 2065 the strong belief that the state of California must dramatically improve equity in transfer 2066 student outcomes to sustain a productive workforce in California, improve the 2067 well-being of the state's residents and provide fair opportunity for social and economic 2068 mobility.

2069

2070 With facilitation from Sova, the Committee will continue its work through June 30, 2071 2025. In 2024 the AB928 Committee "shall elect a chair from its members to serve a 2072 two-year term."⁹⁶ In addition, on or before December 31, 2024, the Committee will 2073 respond to the following legislative requests:

- "Establish timelines and reporting deadlines for the existing regular review of
 declaring or matching transfer model curricula similar to the California State
 University majors for admissions purposes."
- "Develop a plan for the periodic analysis and creation of additional transfer model curricula for the ADT to respond to evolving workforce demands, including STEM degree pathways, and degree pathways that will aid in the economic recovery from the COVID-19 pandemic, such as nursing and cybersecurity."
- "Develop a comprehensive communications plan and guidance on student-centered outreach to inform students about the ADT pathway and to ensure prompt and accurate information is communicated across four-year postsecondary educational institutions, the California Community Colleges, and elementary and secondary education."
- "Provide feedback for the regular review and identification of updates needed to the ADT internet website maintained by the California Community Colleges to ensure current information and updates are communicated to students, families, and student support staff engaged in educating students about their college options, participating four-year postsecondary educational institutions,
- 2092 and degree options."
- 2093

2094 The task ahead is daunting, but equitable transfer outcomes are possible with the right 2095 resources and investments. The AB928 Committee looks forward to continued

59

^{2096 &}lt;sup>96</sup> California State Legislature. (2021). *Assembly Bill No. 928, Student Transfer Achievement Reform Act of 2021:* 2097 Associate Degree for Transfer Intersegmental Implementation Committee. Retrieved April 18, 2023, from 2098 https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220AB928

2099 engagement with stakeholders, including lawmakers, on how to build toward a brighter 2100 and more equitable future for California.

2101

2102

2103

RESOURCES AND TOOLS

2104 Academic Senate for Community College. (n.d.). "ASCCC Transfer Alignment Project."2105 Retrieved August 7, 2023, from https://www.asccc.org/transfer-alignment-project

2106 Aspen Institute College Excellence Program. (2021). "Transfer Students at a Glance."2107 Retrieved August 3, 2023, from

2108 https://highered.aspeninstitute.org/wp-content/uploads/2021/04/ASP001_Infographic_ 2109 1.pdf

2110 Association of Independent California Colleges and Universities. (2023). *Impact Report*2111 *2023*. Retrieved April 18, 2023, from

2112 https://cdn.ymaws.com/aiccu.edu/resource/resmgr/publications/2023/impactreport2022113 3_final_2.16..pdf

2114 Bahr, P., Jackson, G., McNaughtan, J., Oster, M. & Gross, J. (2016, December 20).
2115 Unrealized Potential: Community College Pathways to STEM Baccalaureate Degrees.
2116 Retrieved April 18, 2023, from https://doi.org/10.1080/00221546.2016.1257313

2117 Baker, R., Kurlaender, M., & Friedmann, E. (2021, February). *Improving the Community*2118 College Transfer Pathway to the Baccalaureate: The Effect of California's Associate
2119 Degree for Transfer. Retrieved April 23, 2023, from

2120 https://www.edworkingpapers.com/sites/default/files/ai21-359.pdf

Baker, R., Kurlaender, M., & Friedmann, E. (2020). *Improving the Pathway to the BA: An Examination of the Associate Degree for Transfer*. UC Davis Wheelhouse: The Center
for Community College Leadership and Research. Retrieved April 18, 2023, from
https://education.ucdavis.edu/sites/main/files/wheelhouse_report_pathway_to_the_ba_
1220_final.pdf

2126 Bishop, B., Heckert, K. (2022). *Membership Report, FY 2021*. State Higher Education 2127 Executive Officers. Retrieved August 8, 2023,

2128 https://sheeo.org/wp-content/uploads/2022/08/SHEEO_FY21_Membership_Report.pd 2129 f

2130 California Community Colleges. (n.d.). "Associate Degree for Transfer." Retrieved 2131 November 2, 2023, from

2132 https://icangotocollege.com/associate-degree-for-transfer#:~:text=What%20is%20an%2133 20Associate%20Degree,California%20and%20outside%20the%20state

2134 California Community Colleges. (n.d.). "Enroll Now." Retrieved August 10, 2023, from 2135 https://icangotocollege.com/

2136 California Community Colleges Chancellor's Office. (2021). Update to the Vision for
2137 Success. Retrieved April 18, 2023, from
2138 https://www.cccco.edu/-/media/CCCCO-Website/Reports/vision-for-success-update-20
2139 21-a11y.pdf

2140 California Competes. (n.d.). *Pathways to Prosperity*. Retrieved April 18, 2023, from 2141 https://californiacompetes.org/p2p

2142 California Legislative Analyst's Office. (2003, January). CPEC: A Review of Its Mission
2143 and Responsibilities. Retrieved August 1, 2023, from
2144 https://lao.ca.gov/2003/cpec/CPEC_0103.pdf

2145 California State Legislature. (2021). Assembly Bill No. 132, Postsecondary Education
2146 Trailer Bill. Retrieved April 18, 2023, from
2147 https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220AB132

2148 California State Legislature. (2021). Assembly Bill No. 928, Student Transfer
2149 Achievement Reform Act of 2021: Associate Degree for Transfer Intersegmental
2150 Implementation Committee. Retrieved April 18, 2023, from
2151 https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220AB928

2152 California State Legislature. (2021). Assembly Bill No. 1111, Postsecondary Education:
2153 Common Course Numbering System. Retrieved August 2, 2023, from
2154 https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220AB1111

2155 California State Legislature. (2023). Assembly Bill No. 1291, University of California
2156 Associate Degree for Transfer Pilot Program. Retrieved November 2, 2023, from
2157 https://legiscan.com/CA/text/AB1291/2023

2158 California State Legislature. (2023). Assembly Bill No. 1749, Student Transfer
2159 Achievement Reform Act: University of California. Retrieved August 1, 2023, from
2160 https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202320240AB1749

2161 California State Legislature. (2010). *California Senate Bill No. 1440, California*2162 *Community Colleges: Student Transfer*. Retrieved August 1, 2023, from
2163 https://legiscan.com/CA/text/SB1440/id/10519

2164 California State Legislature. (1960). *California Senate Bill No. 33, 1960 Donahoe Act,*2165 Amendment to the California State Education Code: Sections 22500-22705. Retrieved
2166 August 1, 2023, from

2167 https://oac.cdlib.org/view?docId=hb5b69n9fm&brand=oac4&doc.view=entire_text

2168 California State University. (n.d.). 2010-2022 CSU Undergraduate and Graduate
2169 Degrees Granted, The California State University, Data & Reports. Retrieved July 2023,
2170 from

2171 https://www.calstate.edu/data-center/institutional-research-analyses/Pages/reports-and 2172 -analytics.aspx

2173 California State University. (n.d.). 2008-2009 to 2012-2013 CCC Transfers to the CSU 2174 (Concentration & Ethnicity), The California State University, Data & Reports. Retrieved 2175 July 2023, from

2176 https://www.calstate.edu/data-center/institutional-research-analyses/Pages/reports-and 2177 -analytics.aspx

2178 California State University. (n.d.). 2013-2014 to 2021-2022 CCC Transfers to the CSU 2179 (Concentration & Ethnicity), The California State University, Data & Reports. Retrieved 2180 July 2023, from

2181 https://www.calstate.edu/data-center/institutional-research-analyses/Pages/reports-and 2182 -analytics.aspx

2183 California State University. (n.d.). "CSU Graduation and Continuation Rates 2184 Dashboard." Retrieved August 8, 2023, from

2185 https://tableau.calstate.edu/views/GraduationRatesPopulationPyramidPrototype_liveve 2186 rsion/SummaryDetails?iframeSizedToWindow=true&%3Aembed=y&%3Adisplay_count 2187 =no&%3AshowAppBanner=false&%3AshowVizHome=no

2188 California State University. (n.d.). "Graduation Initiative 2025." Retrieved April 18, 2189 2023, from

2190 https://www.calstate.edu/csu-system/why-the-csu-matters/graduation-initiative-2025/W 2191 hat-Is-Graduation-Initiative-2025

2192 California State University. (n.d.). "Transfer Model Curriculum." Retrieved April 18, 2193 2023, from

2194 https://www.calstate.edu/attend/degrees-certificates-credentials/Pages/TMC-Search.as 2195 px#page-2

2196 California State University. (2022). *Student Admissions and Impaction Policies Report* 2197 *2022*. Retrieved April 18, 2023, from

2198 https://www.calstate.edu/impact-of-the-csu/government/Advocacy-and-State-Relations 2199 /legislativereports1/Student-Admissions-and-Impaction-Policies-Report-2022.pdf

Campaign for College Opportunity. (2021). *Chutes or Ladders: Creating a System That Supports Community College Student Completion*. Retrieved April 18, 2023, from
https://collegecampaign.org/publication/chutes-or-ladders-strengthening-california-co
mmunity-college-transfer-so-more-students-earn-the-degrees-they-seek

2204 Campaign for College Opportunity. (2019). *State of Higher Education for Black*2205 *Californians*. Retrieved April 18, 2023, from

2206 https://collegecampaign.org/wp-content/uploads/2023/02/2019-State-of-Black-Califor 2207 nians-Full-Report-Final.pdf

2208 Carter, J. (2016, August 17). "College Students Prefer to Stay Close to Home, Data
2209 Finds." *Higher Ed Dive.* Retrieved June 21, 2023, from
2210 https://www.highereddive.com/news/college-students-prefer-to-stay-close-to-home-da
2211 ta-finds/424594/

2212 Causey, J., Gardner, A., Pevitz, A., Ryu, M., and Shapiro, D. (2023, April). Some
2213 College, No Credential Student Outcomes, Annual Progress Report – Academic Year
2214 2021/22. Herndon, VA: National Student Clearinghouse Research Center.

2215 Chen, Grace. (2023, June 30). "Why 60% of Community College Students Never
2216 Transfer." *Community College Review*. Retrieved August 1, 2023, from
2217 https://www.communitycollegereview.com/blog/why-60-of-community-college-student
2218 s-never-transfer

2219 Community College Research Center. (2022, July). "Community College STEM
2220 Pathways." Retrieved April 18, 2023, from
2221 https://ccrc.tc.columbia.edu/publications/community-college-stem-pathways.html

2222 Complete 2 Compete. (July 2023). "One Degree Better." Retrieved August 10, 2023, 2223 from https://msc2c.org/

2224 Cooper, D., Fong, K., Karandjeff, K., Kretz, A., Nguyen, A., Nguyen, K., Purnell-Mack, 2225 R., Schiorring, E. (2017). *Through the Gate: Mapping the Transfer Landscape for*

2226 *California Community College Students*. Retrieved August 10, 2023, from 2227 https://rpgroup.org/Portals/0/Documents/Projects/ThroughtheGate/Through-the-Gate-2228 Phase-I-Technical-Report.pdf

2229 Cooper, D., Nguyen, A., Nguyen, K., Chaplot, P., Rodriquez-Kiino, D., Kretz, A., Purnell,
2230 R., Brohawn, K., & Karandjeff, K. (2020, May). *Students Speak Their Truth about*2231 *Transfer: What They Need to Get Through the Gate*. Retrieved April 23, 2023, from
2232 https://rpgroup.org/Portals/0/Documents/Projects/ThroughtheGate/RPGroup_TheTruth
2233 AboutTransfer_TTGPhase3_R3%5B79%5D.pdf?ver=2020-05-18-171449-773

2234 Course Identification Numbering System. (n.d.). C-ID Transfer Model Curriculum 2235 Information. Retrieved August 7, 2023, from https://c-id.net/tmc

2236 Course Identification Numbering System. (n.d.). C-ID Model Curriculum. Retrieved 2237 August 7, 2023, from https://c-id.net/model-curriculum

2238 Cuellar Mejia, M., Perez, C.A., Hsieh, V. & Johnson, H. (2023). *Is College Worth It?*2239 Public Policy Institute of California. Retrieved October 27, 2023, from
2240 https://www.ppic.org/publication/is-college-worth-it/

2241 Cuellar Mejia, M., Johnson, H., Perez, C.A. & Jackson, J. (2023). *Strengthening*2242 *California's Transfer Pathway*. Public Policy Institute of California. Retrieved October 27,
2243 2023, from

2244 https://www.ppic.org/publication/strengthening-californias-transfer-pathway/

2245 Davis, L., Poca, J., and Santos, J. (2022). *The Degree Reclamation Playbook*. Institute 2246 for Higher Education Policy. Retrieved September 16, 2023, 2247 https://www.ihep.org/wp-content/uploads/2022/01/IHEP_DWD_Playbook.pdf

2248 Gallup and Lumina Foundation. (2023.) Education for What? Retrieved September 21, 2249 2023, from https://www.gallup.com/analytics/468986/state-of-higher-education.aspx

2250 Governor's Office of Planning and Research. (2018). *The Master Plan for Higher* 2251 *Education in California and State Workforce Needs: A Review*. Retrieved August 3, 2252 2023, from https://opr.ca.gov/docs/20181226-Master_Plan_Report.pdf

2253 Hillman, N. & Weichman, T. (2016). Education Deserts: The Continued Significance of
2254 "Place" in the Twenty-First Century. American Council on Education. Retrieved June
2255 21, 2023 from

2256 https://www.acenet.edu/Documents/Education-Deserts-The-Continued-Significance-of-2257 Place-in-the-Twenty-First-Century.pdf 2258 Institute for College Access and Success. (2021). Raising College Attainment: A
2259 National Proposal to Scale Student Success Strategies. Retrieved November 2, 2023,
2260 from

2261 https://ticas.org/wp-content/uploads/2021/04/Raising-College-Attainment-A-National-2262 Proposal-to-Scale-Student-Success-Strategies.pdf

2263 Jenkins, D., & Fink, J. (2016). *Tracking Transfer: New Measures of Institutional and State*2264 *Effectiveness in Helping Community College Students Attain Bachelor's Degrees*.
2265 Community College Research Center, The Aspen Institute, & National Student
2266 Clearinghouse Research Center. Retrieved April 18, 2023, from
2267 https://ccrc.tc.columbia.edu/media/k2/attachments/tracking-transfer-new-measures-ins
2268 titutional-state-effectiveness.pdf

Johnson, H., & Cuellar Mejia, M. (2020). *Increasing Community College Transfers: Progress and Barriers*. Public Policy Institute of California. Retrieved April 18, 2023,
from

2272 https://www.ppic.org/wp-content/uploads/increasing-community-college-transfers-pro 2273 gress-and-barriers-september-2020.pdf

2274 Johnson, H. Bohn, S. & Cuellar Mejia, M. (2015, October). "Will California Run Out of 2275 College Graduates?" Public Policy Institute of California. Retrieved April 18, 2023, from 2276 https://www.ppic.org/publication/will-california-run-out-of-college-graduates/

2277 Johnson, H., & McGhee, E. (2023, March 21). "Who's Leaving California—and Who's 2278 Moving In?" Public Policy Institute of California. Retrieved July 25, 2023, from 2279 https://www.ppic.org/blog/whos-leaving-california-and-whos-moving-in/

2280 Lane, P., Michelau, D. K., & Palmer, I. (2012a, June). Going the Distance in Adult
2281 College Completion: Lessons from the Non-traditional No More Project. Retrieved
2282 August 10, 2023, from

2283 https://www.wiche.edu/wp-content/uploads/2018/resources/ntnmStateCaseStudies.pd 2284 f

2285 Legislative Analyst's Office. (2009, November 12). "The Master Plan at 50: Assessing
2286 California's Vision for Higher Education." Retrieved August 1, 2023, from
2287 https://lao.ca.gov/2009/edu/master_plan_intro/master_plan_intro_111209.aspx

2288 Levesque, E.M. (2018). Improving Community College Completion Rates by
2289 Addressing Structural and Motivational Barriers. Brookings. Retrieved November 2,
2290 2023, from

2291 https://www.brookings.edu/articles/community-college-completion-rates-structural-and 2292 -motivational-barriers/

Lumina Foundation. (2021). A Stronger Nation: Learning Beyond High School Builds
American Talent. Retrieved April 19, 2023, from
https://www.luminafoundation.org/stronger-nation/report/#/progress

Maltese, A. & Tai, R. (2011, May 3). *Pipeline Persistence: Examining the Association of Educational Experiences with Earned Degrees in STEM among U.S. Students.*Retrieved August 1, 2023, from https://doi.org/10.1002/sce.20441

2299 Massachusetts Department of Higher Education. (2023). *Strategic Plan for Racial* 2300 *Equity*. Retrieved August 8, 2023, from

2301 https://www.mass.edu/strategic/documents/Massachusetts%20Department%20of%20
2302 Higher%20Education%20Strategic%20Plan%20for%20Racial%20Equity_Updated_0124
2303 2023.pdf

2304 May, G. (2023, January). C-ID/TMC/ADT 101 on behalf of the Academic Senate for
2305 California Community Colleges. Available at
2306 https://www.ab928committee.org/resources

2307 McKinsey & Company. (2023). *Fulfilling the Potential of US Higher Education*. Retrieved 2308 August 11, 2023, from

2309 https://www.mckinsey.com/~/media/mckinsey/industries/education/our%20insights/fulf
2310 illing%20the%20potential%20of%20us%20higher%20education/fulfilling-the-potential2311 of-us-higher-education.pdf

2312 Monaghan, B. & Attewell, P. (2015). "The Community College Route to a Bachelor's2313 Degree." Educational Evaluation and Policy Analysis, 37(1), 70–91.

National Center for Science and Engineering Statistics. (2023.) *Diversity and STEM: Women, Minorities, and Persons with Disabilities 2023. Special Report NSF 23-315.*Alexandria, VA: National Science Foundation. Retrieved August 17, 2023, from
https://ncses.nsf.gov/wmpd

National Governors Association. (March 2021). State Strategies to Re-engage Students
with Some College and No Degree. Retrieved August 10, 2023, from
https://www.nga.org/publications/state-strategies-to-re-engage-students-with-some-co
llege-and-no-degree/

2322 Office of Governor Newsom. (n.d.) "California Blueprint." Retrieved August 1, 2023, 2323 from

2324 https://www.gov.ca.gov/wp-content/uploads/2022/01/Higher-Education-Fact-Sheet.pd 2325 f

2326 Office of Governor Newsom. (2022, May). "Multi-Year Compact Between the Newsom 2327 Administration and the California State University." Retrieved April 18, 2023, from 2328 https://dof.ca.gov/wp-content/uploads/sites/352/Programs/Education/CSU-Compact-2329 May-2022.pdf

Office of Governor Newsom. (2022, May). "Multi-Year Compact Between the Newsom
Administration and the University of California." Retrieved April 18, 2023, from
https://dof.ca.gov/wp-content/uploads/sites/352/Programs/Education/UC-Compact-M
ay-2022.pdf

2334 Office of Governor Newsom. (2022, May). "Multi-Year Roadmap Between the Newsom 2335 Administration and the California Community Colleges." Retrieved April 18, 2023, from 2336 https://dof.ca.gov/wp-content/uploads/sites/352/Programs/Education/CCC-Roadmap-2337 May-2022.pdf

2338 Pechota, D., Fulton, M., Broom, S. (2020). "50-State Comparison: State Postsecondary
2339 Governance Structures." Education Commission of the States. Retrieved August 8,
2340 2023, https://www.ecs.org/50-state-comparison-postsecondary-governance-structures/

Perez, C. A., Hsieh, V., Johnson, H. & Cuellar Mejia, M. (2022, November 29).
"Improving Regional Representation among Community College Transfers." PPIC
Blog. Public Policy Institute of California. Retrieved April 18, 2023, from
https://www.ppic.org/blog/improving-regional-representation-among-community-colle
ge-transfers/?utm_source=rss&utm_medium=rss&utm_campaign=improving-regional-r
epresentation-among-community-college-transfers?utm_source=ppic&utm_medium=e
mail&utm_campaign=blog_subscriber

2348 Postsecondary Value Commission. (2021). Equitable Value: Promoting Economic

2349 Mobility and Social Justice through Postsecondary Education. Institute for Higher

2350 Education Policy and the Bill & Melinda Gates Foundation. Retrieved August 11, 2023, 2351 from

2352 https://www.postsecondaryvalue.org/wp-content/uploads/2021/05/PVC-Final-Report-FI 2353 NAL.pdf

2354 Quinn, S. (2020, January 27). "More Indiana Adults Returning to College to Finish 2355 Degrees." WFYI Public Media. Retrieved August 10, 2023, from 2356 https://www.wfyi.org/news/articles/more-indiana-adults-returning-to-college-to-finish-d 2357 egrees

2358 ReUp Education. (n.d.). "Leaders in the Future of Higher Ed." Retrieved August 10,2359 2023, from https://reupeducation.com/institutions/partner-stories

2360 Scrivener, S., Weiss, M.J., Ratledge, A., Rudd, T., Sommo, C. and Fresques, H. (2015).
2361 Doubling Graduation Rates: Three-Year Effects of CUNY's Accelerated Study in
2362 Associate Programs (ASAP) for Developmental Education Students. MDRC. New York,
2363 NY.

2364 Shapiro, D., Dundar, A., Huie, F., Wakhungu, P.K., Yuan, X., Nathan, A. & Hwang, Y.
2365 (2017, September). *Tracking Transfer: Measures of Effectiveness in Helping Community*2366 *College Students to Complete Bachelor's Degrees* (Signature Report No. 13). Herndon,
2367 VA: National Student Clearinghouse Research Center.

2368 State of California Employment Development Department. (2015). *California Labor*2369 Market Trends: Science, Technology, Engineering, and Math Jobs in California.
2370 Retrieved April 19, 2023, from
2371 https://labormarketinfo.edd.ca.gov/Publications/Trend-Reports/STEM-California-Augus

2372 t-2015.pdf

2373 State Higher Education Executive Officers. (2018). *The Power of a Promise:*2374 *Implications and Importance of Adult Promise Programs*. Retrieved September 15,
2375 2023,

2376 https://sheeo.org/wp-content/uploads/2019/02/Adult-Promise-White-Paper-The-Power 2377 -of-a-Promise.pdf

2378 Student-Ready Strategies. (2023). "AB928 STEM Study Group Data Review." Data
2379 analysis created for the STEM Study Group of the Associate Degree for Transfer
2380 Intersegmental Implementation Committee based on data provided by the California
2381 Community Colleges Chancellor's Office, University of California Office of the
2382 President, California State University Chancellor's Office, and the Association of
2383 Independent California Colleges and Universities.

Student-Ready Strategies. (2023). "Goal-Setting Model." Tool created for the Associate
Degree for Transfer Intersegmental Implementation Committee based on data
provided by the California Community Colleges Chancellor's Office, University of
California Office of the President, California State University Chancellor's Office,
Association of Independent California Colleges and Universities, and the U.S. Census
Bureau.

Student-Ready Strategies. (2023). "Historical Credential Production." Data analysis
created for the Associate Degree for Transfer Intersegmental Implementation
Committee based on data provided by the California Community Colleges Chancellor's
Office, University of California Office of the President, California State University
Chancellor's Office, and the Association of Independent California Colleges and
Universities.

2396 Student-Ready Strategies. (2023). "Regional Associate Degree for Transfer Analysis."
2397 Data analysis created for the Associate Degree for Transfer Intersegmental
2398 Implementation Committee based on data from the California Community Colleges
2399 Chancellor's Office and the California State University Transfer Model Curriculum
2400 website. Retrieved April 18, 2023, from

2401 https://www.calstate.edu/attend/degrees-certificates-credentials/Pages/TMC-Search.as 2402 px#page-2

Student-Ready Strategies. (2023, January 26). "Understanding Transfer: Current
Research in California." Presentation for the AB928 Associate Degree for Transfer
Intersegmental Implementation Committee. Retrieved April 18, 2023, from
https://www.ab928committee.org/meetings/january-26-2023

2407 Student-Ready Strategies. (2023). "Transfer Attainment." Data analysis created for the
2408 Associate Degree for Transfer Intersegmental Implementation Committee based on
2409 data provided by the California Community Colleges Chancellor's Office, University of
2410 California Office of the President and California State University Chancellor's Office.

- 2411 Texas Higher Education Coordinating Board. (2021). *2021 Texas Public Higher* 2412 *Education Almanac.* Retrieved August 8, 2023,
- 2413 https://reportcenter.highered.texas.gov/agency-publication/almanac/2021-texas-public
 2414 -higher-education-almanac/

2415 Tillery, R., Booth, K. & Johnstone, R. (2023). "Transfer, Credentials, and Employment in 2416 CA." WestEd and National Center for Inquiry and Improvement.

2417 Trostel, P., and Smith, M.C. (2017.) It's Not Just the Money: The Benefits of College

2418 Education to Individuals and Society. University of Maine and Lumina Foundation.

2419 Retrieved September 21, 2203, from

2420 https://www.luminafoundation.org/wp-content/uploads/2017/08/its-not-just-the-money 2421 .pdf

2422 University of California. (n.d.). "UC 2030 Dashboard." Retrieved April 18, 2023, from 2423 https://www.universityofcalifornia.edu/about-us/information-center/uc-2030-dashboard

2424 University of California. (2022, July 22). *University of California 2030 Capacity Plan*.
2425 Retrieved April 18, 2023, from
2426 https://regents.universityofcalifornia.edu/regmeet/july22/b5attach2.pdf

²⁴²⁷ University of California. (2022, February 7). *Building 2030 Capacity: UC Traditional and*²⁴²⁸ *Non-traditional Enrollment Growth Strategies.* Retrieved April 1, 2023, from
²⁴²⁹ https://www.ucop.edu/institutional-research-academic-planning/_files/building-2030-ca
²⁴³⁰ pacity-report.pdf

2431 University of California (2021). "UC Opens Doors for Community Colleges." Retrieved2432 August 8, 2023, from

2433 https://www.universityofcalifornia.edu/sites/default/files/2022-02/uc_transfer_onesheet 2434 _2021.pdf

2435 U.S. Census Bureau. (n.d.) "Quick Facts." Retrieved April 19, 2023, from 2436 https://www.census.gov/quickfacts/CA

2437 Varty, A.K. (2022, Summer). "Promoting Achievement for Community College STEM2438 Students through Equity-Minded Practices." *CBE Life Sci Educ*, 21(2): ar25.

2439 Wang, X. (2020). On My Own: The Challenge and Promise of Building Equitable STEM
2440 Transfer Pathways. Harvard Education Press,
2441 https://www.hepg.org/hep-home/books/on-my-own

Weissman, S. (2023, April). "New Report Finds Increase in Students with Some College,
No Credential." *Inside Higher Ed.* Retrieved August 10, 2023, from
https://www.insidehighered.com/news/students/retention/2023/04/25/some-college-n
o-credential-cohort-grows

2446

Whinnery, E., & Peisach, L. (2022, July). *50-State Comparison: Transfer and Articulation Policies*. Education Commission of the States. Retrieved August 10, 2023, from
https://www.ecs.org/50-state-comparison-transfer-and-articulation/

2450

2451 Wozniak, A. (2018, March 22). "Going Away to College? School Distance as a Barrier to 2452 Higher Education." *Econofact*, University of Notre Dame. Retrieved June 21, 2023 from 2453 https://econofact.org/going-away-to-college-school-distance-as-a-barrier-to-higher-edu 2454 cation

2455

2456 Zhu, Z. (2022, July). "Improving Graduation Rates in the Two-to-Four Pathway to 2457 Bachelor's Degrees." Education Finance and Policy, 17 (3): 432–453.

2	Λ	5	C
_	4	U	C

2459

2460 APPENDIX A: PREVIOUS COMMITTEE MEMBERS

2461

2462

2463 (ii) Designating/appointing entity: The Office of the Chancellor of the California State 2464 University

2465

- 2466 Sylvia Alva
- 2467 Executive Vice Chancellor, Academic and Student Affairs
- 2468 Office of the CSU Chancellor

2469

2470 (vi) Designating/appointing entity: The Student Senate for the California Community 2471 Colleges

2472

- Paul Medina
- 2474 Student
- 2475 Los Angeles Community College District

2476

2477 (vi) Designating/appointing entity: The Student Senate for the California Community 2478 Colleges

2479

- 2480 Trajan Robinson
- 2481 Student
- 2482 Folsom Lake College

2483

2484 (vii) Designating/appointing entity: California State University Student Association

- 2485
- 2486 Michael Schouten

2487 Student

2488 California State University, Northridge

2489

2490 (viii) Designating/appointing entity: The University of California Student Association

- 2491
- 2492 Tariq Azim
- 2493 Transfer Student Affairs Officer
- 2494 University of California Student Association

2495

2496 (viii) Designating/appointing entity: The University of California Student Association 2497

- Abeeha Hussain
- 2499 Student
- 2500 University of California, Los Angeles
- 2501