

AB 1111: Common Course Numbering (CCN) Task Force*

Meeting 7, October 18, 2023



California
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* Hereafter “CCN Task Force”

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A11Y 11/8/23

Call to Order, Welcome and Housekeeping



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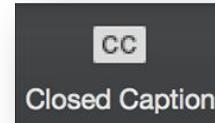
Housekeeping

Tech Support

- Tech Support is available, please message the staff members with Tech Support in their name in the participant list. Support is also available via email: conferences@foundationccc.org

Closed Captioning

- Click the Closed Caption (CC) tab to read live captions



Public Comment

- There will be opportunities for public comment both in person and through Zoom. Public comments are limited to two minutes each.
- If on Zoom: You will be muted during the main presentation, but will have microphone access during the public comment session.

Housekeeping

Wi-Fi Access

- Network: guest
- Password: Foundation 2023

To access the restrooms please exit the meeting room and proceed to the left. They are located in an alcove on the way back towards the elevators.

We have a lunch break planned for roughly 12:15 pm.

Reminder of the Arc of the Work, Review of the Agenda and Meeting Objectives, Discussion of Summary from Meeting 6

The Arc of the Work

Meeting 1: Launch the CCN Task Force, orient to items such as charge and Bagley-Keene, consider student outcomes data, begin developing a definition of student-facing CCN

Meeting 2: Hear from students, further develop definition of student-facing CCN, begin workshopping elements of the implementation plan

Meetings 3-5: Continue workshopping elements of the implementation plan

Meetings 6-7: Finalizing recommended implementation plan and CCN Task Force Summary Report

Meeting 8: Finalize items, celebrate progress, look to the future

Meeting Objectives

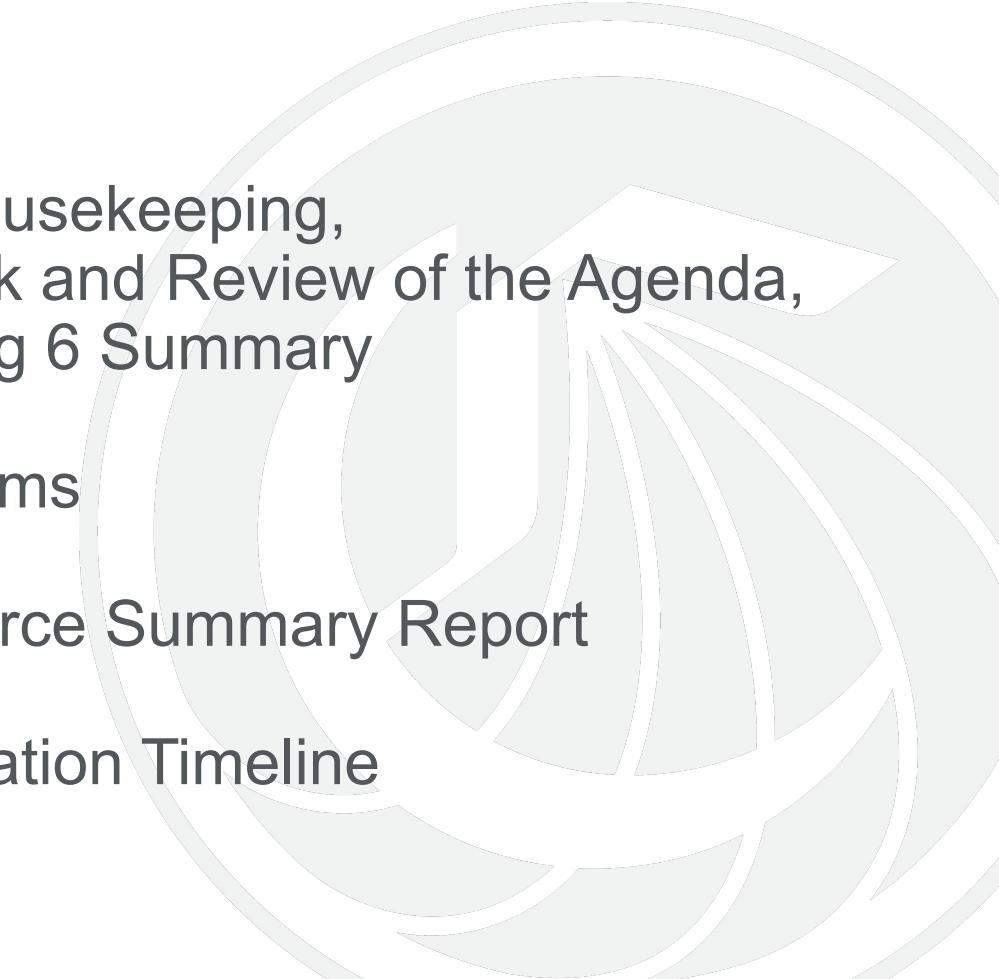
Hear from CCN Task Force members on their reactions to, and requested revisions for, the latest version of the Task Force's Summary Report, which includes the Recommended Implementation Plan for a student-facing common course numbering system

Continue to build out the timeline section of the Recommended Implementation Plan

Consider data from the California Community Colleges Chancellor's Office about course clustering and enrollments

Hear from CCN Task Force members about feedback they are receiving from their stakeholder groups

Agenda



- 9:30-9:45: Call to Order and Welcome, Housekeeping, Reminder of the Arc of the Work and Review of the Agenda, Meeting Objectives and Meeting 6 Summary
- 9:45-9:55: Public Comment on Agenda Items
- 9:55-11:00: Discussion of the CCN Task Force Summary Report
- 11:00-12:15: Development of the Implementation Timeline

Agenda (cont.)

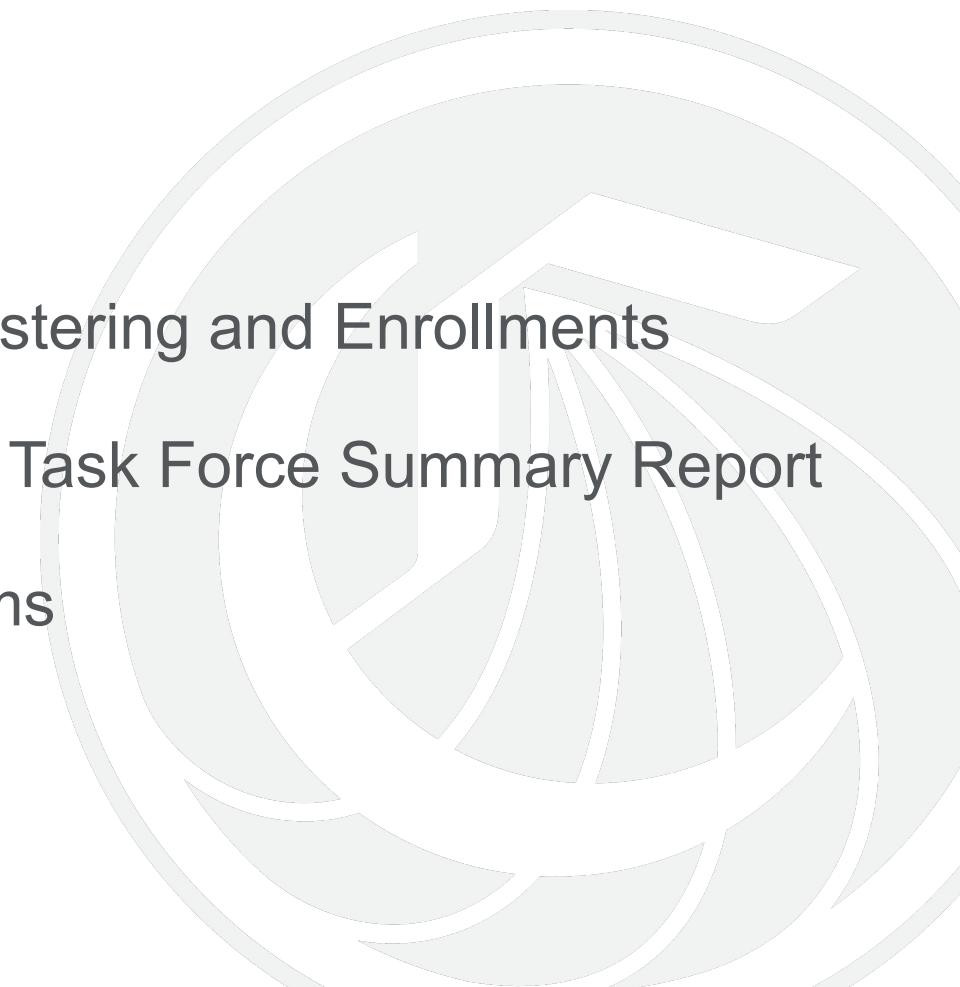
12:15-12:45: Lunch

12:45-1:45: Discussion of Data on Course Clustering and Enrollments

1:45-3:20: Continued Discussion of the CCN Task Force Summary Report

3:20-3:30: Public Forum on Non-Agenda Items

3:30: Next Steps & Adjournment



Meeting 6 Summary

- Any questions or discussion?



Public Comment

Comments should pertain to items on the agenda.
Public comments are limited to 2 minutes each and 10 minutes total.

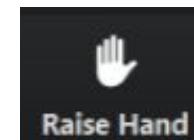
Public Comment

There will be opportunities for public comment both in person and through Zoom. Public comments are limited to two minutes each.

In person: Please complete a comment card and give it to the FCCC representative. You will be called for comment during the section you indicate on the card.

Zoom:

- Attendees will be prompted to “raise hand” in Zoom
 - Press “*9” if attending by telephone.
- Individuals will be called on verbally. We will enable Audio and start a 2-minute timer.
 - If joining by telephone, please press “*6” to unmute.
- When the timer expires, we will disable your audio.



All formats: If utilizing an interpreter or other interpretation technology, we shall provide twice the allotted time, 4-minutes, to ensure that all speakers receive the same opportunity to address the CCN Task Force.

Discussion of the CCN Task Force Summary Report



Outline for the “Summary Report”

- Front matter: Table of Contents, Acknowledgments, Executive Summary, Letter from the Chancellor
- History and charge of the CCN Task Force (e.g., background, legislation, charge of the Task Force)
- Leadership and membership
- Timeline and arc of the work (e.g., research and analysis used, meetings, etc.)
- Recommended Implementation Plan (what the CCN Task Force has been primarily focused on):
 - Scope and definition of student-facing CCN
 - Expected outcomes
 - Milestones and activities to implement CCN, based on the work streams
 - Timeline
- Conclusion

Plan for Completing Summary Report

- Reminder: Draft 1 of Summary Report was publicly posted before, and discussed during, August 31, 2023 meeting.
- Draft 2 of Summary Report:
 - Publicly posted before October 18, 2023 meeting.
 - October 18, 2023: CCN Task Force discusses draft 2 of Summary Report.
 - Revisions made based on feedback during October meeting.

Plan for Completing Summary Report

- Draft 3 of Summary Report:
 - Publicly posted before December 7, 2023 meeting.
 - Goal is document is near-final and any revisions following December meeting are minor.
 - December 7, 2023: CCN Task Force discusses Summary Report.
- Following last CCN Task Force meeting, the Summary Report will be finalized through a collaboration with CCCCCO, the CCN Task Force Co-Chairs Ginni May and Tram Vo-Kumamoto, and Sova.
 - The report will be accompanied by a slide deck.

Plan for Maintaining Momentum

- Co-Chairs and CCN Task Force members have stressed the importance of maintaining momentum.
- Based on the draft Summary Report and CCN Task Force discussions during prior meetings, CCCCO is keeping the work moving.
- A key next step is identifying members for groups such as the CCN Council and the work groups.
- Similar to the process for launching the CCN Task Force, CCCCO is designing a process to request appointments from constituency groups, review with the Co-Chairs, etc.

Session Approach

- Talk for 15 minutes as a small group to prioritize **up to 3 questions** you want to ask and/or edits you want to request.
 - Document on easel pad.
- If you have more than 3, please add your ideas to:
 - “Questions” Parking Lot – On sticky notes, post any additional questions you wish to ask, as time permits.
 - “Edits” Parking Lot – On sticky notes, note any additional edits you recommend, referenced by line number. These will be considered in revision.
- Return for large group discussion. Focused discussions will end promptly.

Session Approach

Group 1	Group 2	Group 3	Zoom Group
Aisha Lowe Meredith Marasco Cheryl Aschenbach Marci Sanchez Rachel Stamm Robyn Brammer Tram Vo-Kumamoto	Ginni May Deborah Ikeda John Freitas Chase Fischerhall John Stanskas Victor DeVore Marilyn Flores	Isabel O'Connor Tiffany Tran Tyler Vaughan-Gomez Rupinder Bhatia Jeremy Brown Kristin Van Gaasbeck Robert Alexander	For any members on Zoom, please send notes to Patricia Parker.

Development of the Implementation Timeline

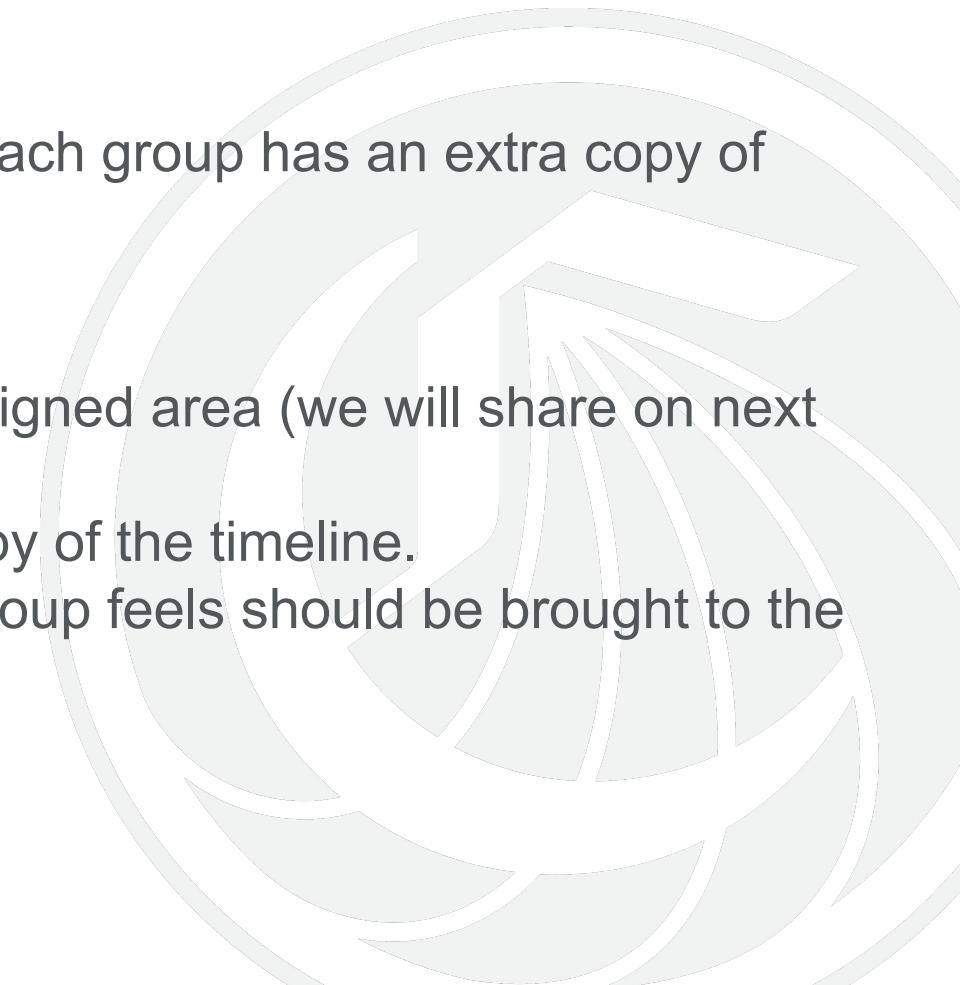


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Timeline Review

- Each group is set up based on previous work and each group has an extra copy of the timeline.
- Work in groups for 30 minutes:
 - In your groups, focus on the content in your assigned area (we will share on next slide).
 - As a group, make specific edits on the extra copy of the timeline.
 - Have a note-taker keep track of any edits the group feels should be brought to the attention of the Task Force for discussion.
- Return for large group discussion at 11:40.



Session Approach

Group 1: CCN Steering & Council	Group 2: Descriptor Development	Group 3: Technology & Processing	Group 4: Communications
Aisha Lowe Meredith Marasco Ginni May Deborah Ikeda Isabel O'Connor	John Freitas Chase Fischerhall John Stanskas Cheryl Aschenbach Marci Sanchez Tiffany Tran Tyler Vaughan-Gomez	Rupinder Bhatia Jeremy Brown Victor DeVore Rachel Stamm Robyn Brammer	Kristin Van Gaasbeck Robert Alexander Marilyn Flores Tram Vo-Kumamoto

Task Force members on Zoom - please send suggested edits to Patricia Parker.

Lunch Break (~30 minutes)

CCN Task Force Members, please follow signs to lunch.

Members of the Public, please break for lunch on your own.

Discussion of Data on Course Clustering and Enrollments



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AB 1111: Common Course Numbering

Transferrable GE Course Enrollments

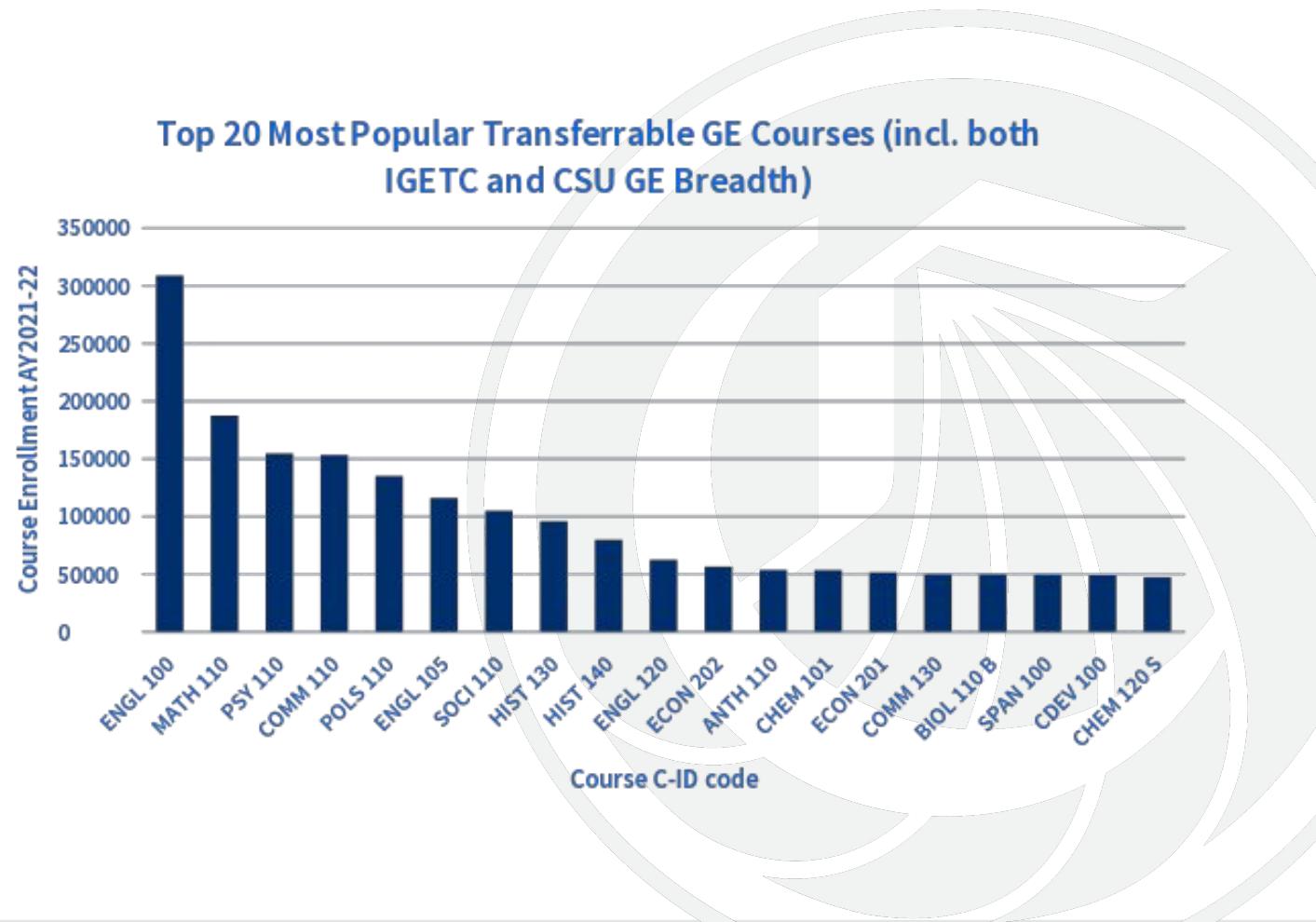
CCN Task Force Meeting, October 18, 2023

Research Question

- What are the most popular CSU/UC transferrable General Education (GE) courses based on enrollment?
 - Goal: Use the info to focus initial common course numbering (CCN) efforts.
- The research team analyzed course enrollments for Intersegmental General Education Transfer Curriculum (IGETC) and CSU GE Breadth courses over the past 3 years (AY 2020-2021, 2021-2022, 2022-2023).
 - We used the Course Identification Numbering System (C-ID) codes to identify similar courses at different colleges.
- Preliminary considerations for merging data sources for CCN

Results Overview

- Top 20 most popular transferrable GE courses (incl. both IGETC and CSU GE Breadth courses) based on enrollment in AY2021-2022 are shown in the figure.
- Results are similar for AY2020-2021 and AY2022-2023.



Data Sources

- Articulation System Stimulating Interinstitutional Student Transfer (ASSIST): Identify transferrable GE courses (IGETC, CSU GE Breadth)
 - Area codes for IGETC and/or CSU-GE/Breadth Certification applicability
- Chancellor's Office Management Information System (COMIS): Count course enrollments
 - Taxonomy of Programs (TOP) codes
- Chancellor's Office Curriculum Inventory System (COCI): Join the ASSIST and the COMIS data
 - ASSIST - College, Dept Name, Dept Number, Min Units, Max Units
 - COMIS - Control Number
- C-ID: Identify similar courses at different colleges
 - College, Dept Name, Dept Number, C-ID #, Descriptor

Analysis Methodology

- Created a course identifier for the analysis:
 - For courses matched with C-ID, we used *C-ID number* as the identifier;
 - For courses unmatched with C-ID, we treated the course as distinct in the system and used *college code + course control number* as the identifier.
- Counted course enrollments by college and term, and then added up the counts across terms for an academic year and across colleges for a same course identifier.
- Results also include TOP codes, GE area codes (IGETC codes & CSU-GE-Certification codes), ASSIST data sources (IGETC and/or CSU GE Breadth) for each course identifier.
 - A course identifier can be associated with multiple TOP codes, GE area codes, and ASSIST data sources.

Results

Top 20 most popular transferrable GE courses by enrollment over the past 3 years

Course Identifier	Descriptor	Enrollment, AY2020-21	Enrollment, AY2021-22	Enrollment, AY2022-23
ENGL 100	College Composition	327902	308795	325876
MATH 110	Introduction to Statistics	220804	187530	186512
COMM 110	Public Speaking	173258	153494	156334
PSY 110	Introductory Psychology	171800	154559	150857
POLS 110	Introduction to American Government and Politics	159632	135381	129994
ENGL 105	Argumentative Writing and Critical Thinking	137205	116000	115322
SOCI 110	Introduction to Sociology	126618	105059	105929
HIST 130	United States History to 1877	117051	95903	89098
HIST 140	United States History from 1865	95983	79853	77377
ENGL 120	Introduction to Literature	70943	62543	62607
ANTH 110	Introduction to Biological Anthropology	66187	53737	56417
ECON 202	Principles of Macroeconomics	62183	56567	57935
SPAN 100	Elementary Spanish I	59578	49824	50710
ECON 201	Principles of Microeconomics	58324	51554	55439
CHEM 101	Introduction to Chemistry	57950	53544	48740
CDEV 100	Child Growth and Development	56451	49375	50370
BIOL 110 B	Human Anatomy with Lab	55568	50040	45941
COMM 130	Interpersonal Communication	54985	50102	52644
CHEM 120 S	General Chemistry for Science Majors Sequence A	54917	47340	44474

Results

TOP codes & GE area codes for the most popular transferrable GE courses

Course Identifier	Descriptor	TOP Code	GE Area - IGETC Code	GE Area - CSU GE Code
ENGL 100	College Composition	150100, 493084, 493087	1A	A2, A3
MATH 110	Introduction to Statistics	010300, 050100, 050500, 050600, 170100, 179900, 200100, 200300, 209900, 220100, 220200, 220400, 220800	2A, 4	B4, D
COMM 110	Public Speaking	060100, 150600	1C	A1, A3
PSY 110	Introductory Psychology	200100, 220100	4, 4I	D, D1, D4, D7, D9, E
POLS 110	Introduction to American Government and Politics	220100, 220700	4, 4H, 7	D, D1, D2, D3, D8, F
ENGL 105	Argumentative Writing and Critical Thinking	150100, 150900, 152000, 200100, 220800	1B, 3B	A2, A3, C2, E
SOCI 110	Introduction to Sociology	220100, 220800	4, 4C, 4G, 4J, 7	D, D0, D1, D3, D6, D7, E, F
HIST 130	United States History to 1877	220300, 220500	3B, 4, 4C, 4F	C2, D, D3, D4, D6, D8
HIST 140	United States History from 1865	220180, 220300, 220500	3B, 4, 4C, 4F, 7	C2, D, D3, D4, D6, D8, F
ENGL 120	Introduction to Literature	150100, 150200, 150300, 493087	1A, 1B, 3B	A2, A3, C2
ANTH 110	Introduction to Biological Anthropology	220200	4, 4A, 5A, 5B, 5C	B2, B3, D, D1, D5, E
ECON 202	Principles of Macroeconomics	050100, 050500, 220400	4, 4B, 4G	D, D2, D3
SPAN 100	Elementary Spanish I	110100, 110500	6A	C2
ECON 201	Principles of Microeconomics	050100, 050400, 050500, 220400	4, 4B, 4G	D, D2, D3
CHEM 101	Introduction to Chemistry	190500	5A, 5C	B1, B3
CDEV 100	Child Growth and Development	130100, 130500, 130580, 130800, 200100	4, 4G, 4I, 4J	D, D0, D1, D7, D9, E
BIOL 110 B	Human Anatomy with Lab	040100, 041000, 126000	5B, 5C	B2, B3
COMM 130	Interpersonal Communication	060100, 150600	1C, 4, 4G	A1, A3, D, D7, E
CHEM 120 S	General Chemistry for Science Majors Sequence A	190500	5A, 5C	B1, B3

Results

- Most popular areas by frequency in 100 transferrable GE courses with the highest enrollment over the past 3 years are -
 - By TOP codes: 22 – Social Sciences, 15 – Humanities, 20 – Psychology, 04 – Biological Sciences, 19 – Physical Sciences.
 - By IGETC codes: 4 – Social Sciences, 5C – Science Laboratory, 3B - Humanities, 4G - Interdisciplinary, Social & Behavioral Sciences , 4J - Sociology & Criminology
 - By CSU-GE-Certification codes: D - Social Sciences, D7– Interdisciplinary Social or Behavioral Science, E– Lifelong Understanding and Self-Development , C2– Humanities {Literature, Philosophy, Languages Other than English} , B3– Laboratory Activity

Match Rates

Data	Unique by	Number of Records	% of Above
ASSIST (CSUGE+IGETC, 2020-now)	College, Dept Name, Dept Number, Min & Max credits	38,445	-
Not matched with COCI	College, Dept Name, Dept Number, Min & Max credits	1,845	5%
Matched with COCI	College, Course Control Number	39,954	-
Not matched with C-ID	College, Course Control Number	25,416	64%
Matched with C-ID	C-ID Number	262	-

Data Challenges

- Challenge 1: No consistent college identifier and course identifier between the ASSIST and the COMIS data
- Solution:
 - Built a crosswalk for college codes between ASSIST and COMIS
 - Joined ASSIST with COCI by *College, Dept Name, Dept Number, Min Units, Max Units* to obtain *Control Number* (course identifier in COMIS) for transferrable GE courses
 - Cleaned up space, dash, and zeros between letters and numbers in Dept Name & Dept Number to improve match rate – e.g. We could join courses as “MATH 01” in one source and “MATH-1” in another source with this clean-up.

Data Challenges

- Challenge 2: Without joining similar courses at different colleges, system-wide results will be biased by college size.
- Solution: Joined ASSIST with C-ID by *College, Dept Name, Dept Number* to identify similar courses across colleges
 - Similarly, we built a college crosswalk between the two sources and applied clean-ups to Dept Name & Dept Number for the match.

Caveats

- Caveat 1: The match key (*College, Dept Name, Dept Number, Min Units, Max Units*) is not an exact and unique course identifier.
 - Inconsistent Dept Name & Dept Number across sources:
 - Examples:
 - (1) Physical Geology at Sacramento City College is GEOL 302 in ASSIST but GEOL302-3061 in COCI. Our methodology does not match the two records.
 - (2) Principles of Healthful Living at Feather River College (HES 100) in ASSIST is not found in COCI.
 - Unable to examine enrollment for unmatched courses.
 - Courses share the same match key:
 - Example: Programming and Problem-Solving in MATLAB at Butte College is ENGR 2 in ASSIST. While we match it with its COCI record, it is also matched with a non-transferrable GE course, Engineering Graphics, as it is ENGR-2 in COCI.
 - Results may be matched in enrollments for non-transferrable GE courses.

Caveats

- Caveat 2: Not all the courses are in C-ID.
 - Examples:
 - (1) Magic, Witchcraft, and Religion (ANTH 13) at Butte College is not found in the C-ID data.
 - (2) Elementary Spanish (SPAN 1) at Mt. San Antonio College is not found in the C-ID data. Instead, Spanish for the Spanish Speaking (SPAN 1S) is in the C-ID data as the articulated course for Elementary Spanish at the college.
 - Unable to identify similar courses at different colleges that are not in the C-ID program/data.

Match Rates

Data	Unique by	Number of Records	% of Above
ASSIST (CSUGE+IGETC, 2020-now)	College, Dept Name, Dept Number, Min & Max credits	38,445	-
Not matched with COCI	College, Dept Name, Dept Number, Min & Max credits	1,845	5%
Matched with COCI	College, Course Control Number	39,954	-
Not matched with C-ID	College, Course Control Number	25,416	64%
Matched with C-ID	C-ID Number	262	-

Key Takeaways

- Transferrable GE courses over the past 3 years are sorted by enrollment with TOP codes and GE area codes attached for the CCN task force.
 - Courses with the highest enrollment over the past 3 years are: College Composition (ENGL 100), Introduction to Statistics (MATH 110), Public Speaking (COMM 110).
- Results are noisy/incomplete due to challenges to join courses across databases and across colleges.
 - To join courses across databases, we currently rely on an approximate string matching based on college, dept name and dept number. The match key cannot uniquely and exactly identify courses, causing course records unmatched / noisily matched and information loss as a result.
 - To join similar courses across colleges to examine system-wide course-taking patterns, we currently rely on matching with the C-ID data based on college, dept name and dept number. We have the same fuzzy matching issue as above, and cannot join courses if not in the C-ID program/data.

Appendix – TOP codes

- 01 – Agriculture and Natural Resources
- 02 – Architecture and Environmental Design
- 03 – Environmental Sciences and Technologies
- 04 – Biological Sciences
- 05 – Business and Management
- 06 – Media and Communications
- 07 – Information Technology
- 08 – Education
- 09 – Engineering and Industrial Technologies
- 10 – Fine and Applied Arts
- 11 – Foreign Language
- 12 – Health
- 13 – Family and Consumer Sciences
- 14 – Law
- 15 – Humanities
- 16 – Library Science
- 17 – Mathematics
- 18 – Military Studies
- 19 – Physical Sciences
- 20 – Psychology
- 21 – Public and Protective Services
- 22 – Social Sciences
- 30 – Commercial Services
- 49 – Interdisciplinary Studies



Appendix – GE area codes

- IGETC-Code:
 - 1A – English Composition
 - 1B – Critical Thinking - English Composition
 - 1C – Oral Communication {CSU requirement only}
 - 2A – Math
 - 3A – Arts
 - 3B – Humanities
 - 4 – Social Sciences
 - 4A – Anthropology and Archaeology
 - 4B – Economics
 - 4C – Ethnic Studies
 - 4D – Gender Studies
 - 4E – Geography
 - 4F – History
 - 4G – Interdisciplinary, Social & Behavioral Sciences
 - 4H – Political Science, Government & Legal Institutions
 - 4I – Psychology
 - 4J – Sociology & Criminology
 - 5A – Physical Science
 - 5B – Biological Science
 - 5C – Science Laboratory
 - 6A – Language Other Than English
 - 7 – Ethnic Studies
 - 8A – Critical Thinking
 - 8B – English Composition
 - 8C – English Composition – 2nd Quarter
- CSU-GE-Certification-Code:
 - A1 – Oral Communication
 - A2 – Written Communication
 - A3 – Critical Thinking
 - B1 – Physical Science
 - B2 – Life Science
 - B3 – Laboratory Activity
 - B4 – Mathematics/Quantitative Reasoning
 - C1 – Arts {Art, Dance, Music, Theater}
 - C2 – Humanities {Literature, Philosophy, Languages Other than English}
 - D – Social Sciences
 - D0 – Sociology and Criminology
 - D1 – Anthropology and Archeology
 - D2 – Economics
 - D3 – Ethnic Studies
 - D4 – Gender Studies
 - D5 – Geography
 - D6 – History
 - D7 – Interdisciplinary Social or Behavioral Science
 - D8 – Political Science, Government and Legal Institutions
 - D9 – Psychology
 - E – Lifelong Understanding and Self-Development
 - F – Ethnic Studies



Appendix – ENGL 100 Course Examples

College	Dept Name	Dept Number	Course Title	TOP Code	GE Area - IGETC Code	GE Area - CSU GE Code
Butte College	ENGL	2	Reading-Composition	150100	1A	A2
Butte College	ENGL	3	Reading-Composition Intensive	150100	1A	A2
Grossmont College	ESL	122	College Rhetoric	493087	1A	A2
Grossmont College	ENGL	120	College Composition & Reading	150100	1A	A2
American River College	ESLW	340	Advanced Composition	493084	1A	A2
American River College	ENGWR	300	College Composition	150100	1A	A2
College of San Mateo	ENGL	100	Composition	150100	1A	A2
College of San Mateo	ENGL	100	Composition	150100	1A	A3

Appendix – MATH 110 Course Examples

College	Dept Name	Dept Number	Course Title	TOP Code	GE Area - IGETC Code	GE Area - CSU GE Code
Grossmont College	MATH	160	Elementary Statistics	170100	2A	B4
Grossmont College	PSY	215	Statistics for the Behavioral Sciences	200100	2A	B4
Grossmont College	SOC	215	Statistics for the Behavioral Sciences	220800	2A	B4
Grossmont College	ANTH	215	Statistics for the Behavioral Sciences	220200	2A	B4
Cosumnes River College	ECON	310	Statistics for Bus and Econ	220400	2A	B4
Cosumnes River College	STAT	300	Intro to Probability and Stat	170100	2A	B4
Napa Valley College	MATH	232	Statistics	170100	2A	B4
Sierra College	PSYC	142	Intro Psychological Statistics	209900	2A	B4
Diablo Valley College	BUS	240	Business Statistics	050500	2A	B4
City College of San Francisco	LALS	5	Intro Statistic Latin America	179900	2A	B4
Skyline College	BUS	123	Statistics	050600	2A	B4
Yuba College	PSYCH	6	Intro to Statistics in Soc/Behv Science	200100	4	B4
Yuba College	PSYCH	6	Intro to Statistics in Soc/Behv Science	200100	4	D

Continued Discussion of CCN Task Force Summary Report

Session Approach

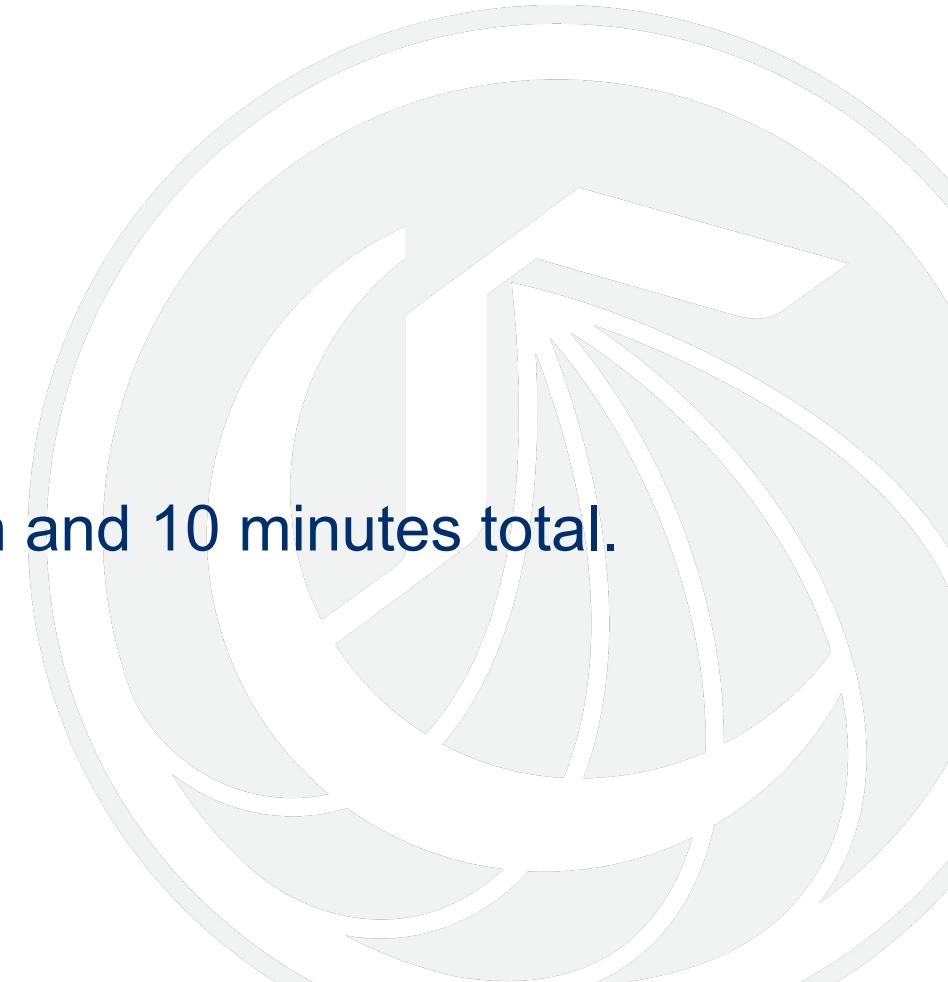
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Public Forum

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Next Steps

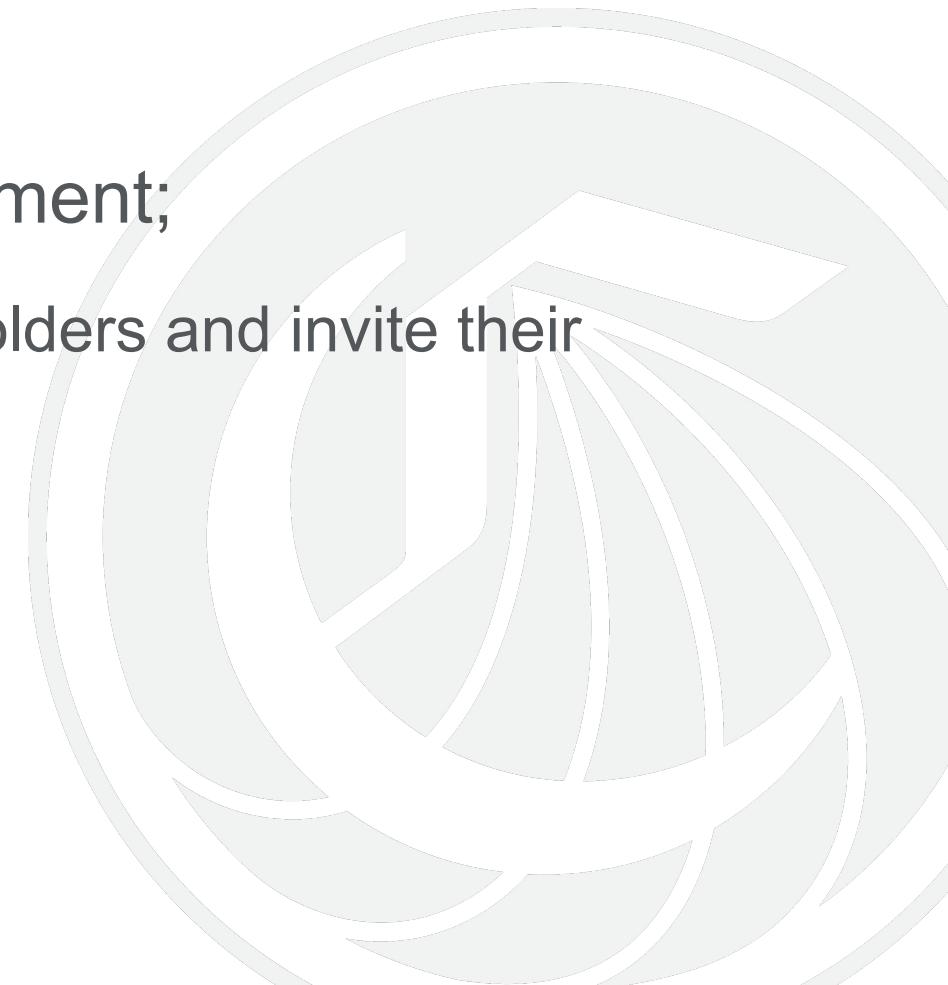


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Next Steps

- Meeting 7 Summary will be a public document;
 - As a reminder, please engage your stakeholders and invite their feedback;
- Next meeting: December 7, 2023;
- Reminder re. Bagley-Keene; and
- Questions?
 - lara.couturier@sova.org



Adjournment

