MEMORANDUM





AA 19-25 | Via Email

TO: Chief Instructional Officers

Chief Student Services Officers Academic Senate President

FROM: Alice Perez,

Vice Chancellor, Educational Services & Support

RE: New Data Elements

Colleagues,

Recent legislation and the reporting requirements related to Assembly Bill (AB) 705 (Irwin), the Student Centered Funding Formula (SCFF), and the new Student Success Metrics cannot be accurately accomplished using our current methods, which are based on course Taxonomy of Program (TOP) codes. To better evaluate the implementation of AB 705, populate the Student Success Metrics, and calculate SCFF, the California Community Colleges Chancellor's Office has created two new Course Basic (CB) MIS data elements. This memo provides information on the intent behind the new data elements (including why an adjustment has been made to the CB25 element), how these metrics were developed, and resources to help colleges code their courses.

INTENT BEHIND THE NEW DATA ELEMENTS

CB25: GENERAL EDUCATION REQUIREMENTS

The current methodology for tracking transfer-level English and mathematics courses over-counts and undercounts courses in English and mathematics/quantitative reasoning because the reporting is based on TOP codes for the English, reading, and mathematics disciplines, rather identifying courses that fulfill transfer or general education requirements.

The creation of this data element allows colleges to identify courses that fulfill degree or general education requirements in the categories of Composition/Critical Thinking and Mathematics/Quantitative Reasoning/Analytical Thinking, as well as those that meet local competency requirements.

COMPOSITION/CRITICAL THINKING

Currently, in the SCFF and Student Success Metrics, students are given credit for completion of transfer-level English if they finish any course in an English or Reading TOP code that is also

flagged as being transferrable to either a CSU or both UC and CSU (using the CB05: Course Transfer Status flag). This means that courses such as Children's Literature and Poetry Writing are being included. Courses are counted if they transfer as an elective, which does not address the desire to have students complete college degrees while minimizing excess units.

In English, general education requirements for both transfer and local degree pathways focus on English composition and critical thinking skills. For example, the Intersegmental General Education Transfer Curriculum (IGETC) designation of English Communication includes one course in English composition and one course in critical thinking/English composition. For CSU General Education Breadth, English Language Communication and Critical Thinking students must take courses that fulfill requirements in written communication and critical thinking; therefore, courses should be flagged as CB25=A if they meet English or critical thinking requirements in the context of UC or CSU, or have an articulation agreement with a private or out-of-state four-year institution pertaining to English composition.

This does mean that some courses outside of the English discipline that fulfill critical thinking requirements will be counted. In most cases, in order to meet IGETC requirements, these critical thinking courses have an English composition course as a prerequisite. Some do not, but if they enable students to meet the transfer requirements associated with CSU GE Breadth for English Language Communication and Critical Thinking, these courses are allowable for CB25=A.

Including an option for taking a critical thinking course also ensures that students who enter community college and have already met English Composition requirements, such as those who took a dual enrollment course or secured Advanced Placement credit, and who are making progress in their first year on their transfer requirements in the area of English/Critical Thinking, are counted in the Student Success Metrics and SCFF. Furthermore, this designation means that ESL courses that meet four-year general education requirements in either English composition or critical thinking can also be counted as CB25=A.

MATHEMATICS/QUANTITATIVE REASONING/ANALYTICAL THINKING

Currently, in the SCFF and Student Success Metrics, students are given credit for completion of transfer-level mathematics if they finish any course in the Mathematics TOP code that is also flagged as being transferrable to either a CSU or both UC and CSU (including courses that only transfer as electives and do not satisfy any general education or major requirement). This means that courses such as Psychology Statistics are being excluded from the calculation, as would be new courses such as Personal Finance that may be eligible for approval for CSU General Education credit.

June 6, 2019

In mathematics, general education requirements for transfer and local degree pathways can be different. For example, Intermediate Algebra may fulfill mathematics competency or degree requirements for a local degree, but it is not a transferable course. Therefore, an amendment has been made to the original definition for CB25.

Courses should be flagged as CB25=B if they meet transfer requirements in the areas of IGETC Mathematical Concepts and Quantitative Reasoning, General Education Breadth Mathematics/Quantitative Reasoning, or have an articulation agreement to complete mathematics or quantitative reasoning general education requirements at an accredited four-year institution.

A new designation of CB25=C has been created to distinguish courses that are not transferrable, but meet local requirements in the areas of analytical thinking or mathematics competency as outlined in Title 5 Section 55063. In addition, the logic checks for CB25 have been adjusted to account for Intermediate Algebra or equivalent courses, which are coded as degree-applicable (using CB04: Course Credit Status) and not coded as basic skills (CB08: Course Basic Skills Status).

By distinguishing these two types of general education requirements in mathematics, a designation of CB25=B will be used to identify courses that fulfill transfer requirements for the purpose of the Student Success Metrics and SCFF. CB25=C will be used to evaluate AB705, which includes requirements that pathways be created that are appropriate for local degrees, in addition to transfer pathways.

CB26: COURSE TRANSFER TYPES

CB26 allows colleges to distinguish support courses associated with AB705 implementation from noncredit, pre-collegiate courses that are associated with efforts such as the California Adult Education Program (CAEP). It can also be used to evaluate AB705, to examine how support courses relate to student outcomes such as enrollment patterns, completing general education requirements, earning an award, or transferring to a four-year institution.

CB21: COURSE PRIOR TO COLLEGE LEVEL

In addition to the two new CB elements, the CB21 rubrics were updated. These changes integrate objectives related to quantitative reasoning, English/reading courses, and ESL from the federal Educational Functioning Levels (EFL) already in use by noncredit programs and K12 adult schools. The EFLs mirror standards adopted through the Common Core. The changes also ensured that outcomes from C-ID approved courses are reflected in the rubrics. The English/reading and quantitative reasoning rubrics will be updated in the MIS Dictionary by June 14, 2019. The ESL rubrics will undergo review by faculty over the summer and will be finalized in Fall 2019.

DATA ELEMENT DEVELOPMENT PROCESS

The two new data elements were developed through a consultative process that included faculty, researchers, chief instructional officers, and Chancellor's Office staff. Several workgroups met simultaneously to address ways to best code pre-collegiate, college-level, and transfer-level courses in the context of AB705. For example, a group that included representatives appointed by the RP Group and the Academic Senate for California Community Colleges reviewed MIS data elements and recommended the creation of a number of new elements. In addition, workgroups made up of credit, noncredit, and adult education faculty in the areas of mathematics, English & reading, and ESL met to refine the CB21 rubrics.

Because the new CB data elements and the revisions to the CB21 rubrics fall under faculty purview, ASCCC held five regional meetings in March 2019 and a webinar to vet the recommendations. The updated CB21 rubrics for mathematics/quantitative reasoning and English/reading were endorsed by the delegates at ASCCC's spring 2019 plenary. Recommendations from the regional meetings resulted in some minor shifts to the metric construction.

RESOURCES FOR DATA ELEMENT CODING

Colleges are expected to make revisions to their codes in time for their winter MIS submission, to better track outcomes in the first term of 2019-20. To support colleges in applying the new CB codes or to make adjustments in CB21 levels, ASCCC will devote time at the Curriculum Institute in July 2019 to course recoding. Adjustments to the Student Success Metrics and SCFF definitions will be made in 2020.

cc: Eloy Oakley, Chancellor

Daisy Gonzales, Deputy Chancellor

Marty Alvarado, Executive Vice Chancellor, Educational Services & Support

Rhonda Mohr, Vice Chancellor, Educational Services & Support

Barney Gomez, Vice Chancellor, Digital Innovation & Infrastructure Services

The English a	The English areas below are not isolated tasks but rather outcomes that should be integrated within each level.					
English	Writing Assignments	Reading/Critical Thinking	Organization Development, and Thesis/Central Idea	Mechanics, Grammar, and Syntax	Research and Resources	Additional Considerations, Voice, Technology, and Teamwork
Transfer level Freshman Composition or English 1 A	Write an analysis of primarily non-fiction texts for content, context, and rhetorical merit with consideration of tone, audience, and purpose. Write a well-	Examine challenging, college level texts using critical analysis and active reading strategies. Analyze, evaluate, and think critically about a variety of primarily non-fiction texts for	Organize essays around arguable theses and central ideas. Organize paragraphs into a logical sequence, developing the central idea of the essay to a logical	Proofread and edit essays for presentation so they mostly exhibit no disruptive errors in English grammar, usage, or punctuation.	Conduct long research projects, using complex primary and secondary sources in historical, scientific, or technical texts. Find, evaluate, and analyze print and online information to	Integrate and evaluate multiple sources of information presented in diverse media. Display flexibility, integrity, and initiative when
C-ID IMPAC and EFLs	developed, researched argumentative essay and other writings using evidence from other sources to support one's findings and assertions. Write timed/in-class essays and other writings exhibiting control of mechanics, organization, development.	their rhetorical and technical merits, with consideration of the principles of unity, coherence, tone, persona, purpose, methods, and the effects on a target audience. Analyze stylistic choices in one's own and others' writing.	essay to a logical conclusion. Apply varied and flexible strategies for generating, drafting, and revising essays.	Use appropriate and varied sentence structures consistently, with college-level diction and vocabulary.	determine credibility. Incorporate credible sources into written essays using appropriate documentation format. Integrate the ideas of others through paraphrasing, summarizing, and quoting without plagiarism.	collaborating as an effective team member. Manage time and resources wisely to contribute to overarching goal(s) and meeting deadlines. Use digital and print media strategically in support of ideas, research, and analysis. Address specific audiences using an appropriate voice and level of formality.
English	Write essays that make an argument	Use appropriate level texts and active	Organize relationships among the claim(s),	Proofread and edit essays so they exhibit	Conduct short research projects that	Maintain a formal style, addressing

The English a	reas below are not isolate	ed tasks but rather outcom	nes that should be integra	ted within each level.		
English	Writing Assignments	Reading/Critical Thinking	Organization Development, and Thesis/Central Idea	Mechanics, Grammar, and Syntax	Research and Resources	Additional Considerations, Voice, Technology, and Teamwork
CB21 - A 1 level prior to transfer EFL level 6 Lexile Measure 1185-1385	using information from one or more informative sources, including primary and secondary sources. Write essays and other class assignments that demonstrate organizing, composing, revising, editing, and time management skills in the writing process.	reading strategies to connect and accurately interpret information. Analyze the cumulative impact of specific word choices on meaning and tone. Evaluate arguments and specific claims, assessing whether the reasoning is sound. Analyze author's tone, purpose, or stance. Present findings and supporting evidence clearly, concisely, and logically so that the audience can follow the line of reasoning.	counterclaim(s), and evidence to amplify a central claim or thesis. Supply evidence for claims and counterclaims, identifying strengths and limitations that anticipate the audience's knowledge level and concerns.	few errors that interfere with meaning in English grammar, usage, or punctuation. Use appropriate and varied transitions to clarify the relationships among complex ideas and to link major sections. Construct sentences that demonstrate control of sentence variety and effective word choice, using mostly college level diction.	require the synthesis of multiple sources to make informed decisions and to solve problems. Evaluate the credibility of each source in answering the research question. Cite effective and appropriate evidence for findings and assertions to make sound decisions and solve problems. Exhibit emerging competence with documentation methods and usage of outside sources.	specific audiences using an appropriate voice for those readers using the norms and conventions of the discipline in which they are writing. Employ technology to link to other information and display information flexibly and dynamically. Participate in a thoughtful exchange of ideas as a member of a team. Manage time and resources to meet goals and deadlines. Use print and digital media to support ideas.

The English a	reas below are not isolate	ed tasks but rather outcom	nes that should be integra	ted within each level.		
English	Writing Assignments	Reading/Critical Thinking	Organization Development, and Thesis/Central Idea	Mechanics, Grammar, and Syntax	Research and Resources	Additional Considerations, Voice, Technology, and Teamwork
English CB21 - B 2 levels prior to transfer EFL Level 5 Lexile Measure 1050-1335	Write essays with a central idea and paragraphs, using a variety of rhetorical strategies and information from other sources. Strategize and execute a plan in response to a writing prompt with help. Summarize, analyze, and make a simple synthesis between two readings or ideas. Complete in-class essays and other writings that demonstrate time management skills in the writing process.	Use appropriate level texts, increasing facility with vocabulary and active reading strategies. Identify an author's purpose and distinguish between a personal stance and the author's point of view. Evaluate the validity of specific claims and identify false statements. Provide an objective summary of a text. Analyze central ideas and explain how they are refined by particular sentences, paragraphs, or portions of text.	Examine a topic through the effective selection, organization, and analysis of sufficient relevant facts, suitable to the audience's knowledge of the topic. Introduce and distinguish statements from alternate or opposing claims, with clear reasons and sufficient evidence. Present oral findings and supporting evidence such that listeners can follow the reasoning.	Proofread and edit essays so they exhibit few errors that interfere with meaning in English grammar, usage, or punctuation. Use appropriate transitions, mostly consistent style, and tone to link major sections of the text to establish clear relationships among claims and evidence. Use appropriate language and domain-specific vocabulary to manage the complexity of the topic. Determine the cumulative impact of specific word choices on meaning and tone.	Conduct short research projects to make informed decisions and to solve problems. Draw evidence from more than one text to support an analysis. Assess the accuracy of each source and communicate the data and conclusions of others. Cite evidence for findings and assertions to make informed decisions and solve problems.	Direct essays to a specific audience using a consistent voice. Translate quantitative or technical information expressed in words into visual form (e.g. a table or chart and visual information into words). Collaborate as a member of team by building on others' ideas. Take advantage of technology appropriate to the audience.

The English a	The English areas below are not isolated tasks but rather outcomes that should be integrated within each level.					
English	Writing Assignments	Reading/Critical Thinking	Organization Development, and Thesis/Central Idea	Mechanics, Grammar, and Syntax	Research and Resources	Additional Considerations, Voice, Technology, and Teamwork
English CB21 – C 3 levels	Write short, topic- based essays with a main idea. Write guided	Read and comprehend appropriate level texts that include academic vocabulary. Analyze the impact of	Locate and organize information to support a central idea. Introduce and	Produce writing without many basic errors in English grammar, usage, or punctuation.	Conduct short research projects, drawing on several sources for evidence to support an analysis.	Direct essays to an audience considering voice. Use technology to
prior to transfer EFL Level 4 Lexile Measure 925-1185	assignments based on a variety of prompts that attempt to organize, compose, revise, and edit.	specific word choice on meaning and tone. Summarize and analyze central ideas and connections. Identify the point of view of the text. Evaluate how multiple texts address similar themes.	acknowledge alternate claims. Examine a topic through the selection, organization, and analysis of relevant facts and information. Clarify relationships among ideas, reasons, and evidence.	Use transitions and logical progression of ideas. Maintain consistency in style and tone. Use specific word choices appropriate for the topic, purpose, and audience.	Use sources provided and communicate the conclusions of others.	write and to cite sources. Collaborate for teamwork. Present knowledge in a variety of contexts and tasks.
English CB21 - D	Write opinion pieces, supporting a logically ordered point of view	Read appropriate level texts and identify the variety of purposes for	Use well-organized multi-paragraphs to convey information	Link ideas and reasons with words, phrases, and clauses.	Conduct short research projects, using online and print	Use a clear writing voice.
4 levels prior to transfer	with facts and reasons. Produce informative paragraphs	writing. Summarize central ideas and explain how they are supported by	clearly. Summarize or paraphrase information from	Identify and attempt to correct basic errors in English grammar, usage, or	Use evidence from several texts.	Use technology to write and collaborate with others. Contribute to
EFL level 3 Lexile Measure 740-1010	developing a topic with concrete facts and details. Write guided assignments.	key details. Interpret information in print and digital media to find an answer to a question or to solve a problem.	multiple texts and provide a list of those sources. Use details to support a central idea.	punctuation.	Identify and use evidence for findings and assertions. Explain how each claim is supported by reasons and evidence.	teamwork. Report on a topic, sequencing ideas with facts.

The English areas below are not isolated tasks but rather outcomes that should be integrated within each level.						
English	Writing Assignments	Reading/Critical Thinking	Organization Development, and Thesis/Central Idea	Mechanics, Grammar, and Syntax	Research and Resources	Additional Considerations, Voice, Technology, and Teamwork
CB 21 – E 5 levels prior to transfer EFL level 2 Lexile Measure 420-820	Write opinion pieces or simple informative texts, supporting a point of view with reasons. Write narratives with details that describe actions, thoughts, and feelings.	Read level-appropriate texts with accuracy, appropriate rate, and expression. Determine main ideas and the author's purpose. Show how key details support the main idea. Contrast key details in two texts on the same topic. Distinguish their own point of view from that of the author.	Examine a topic and convey information clearly. Take brief notes from print and digital sources, and sort evidence into provided categories.	Use transition and temporal words to link ideas and signal event order.	Conduct short research projects and summarize learning. Use print and digital search tools to locate information relevant to a given topic.	Use technology to write and collaborate with others. Participate in conversations. Report on a topic with appropriate facts. Provide requested detail or clarification.
CB 21 – F 6 levels prior to transfer EFL Level 1 No Lexile Measure	Write simple informative paragraphs, examining a topic. Write complete sentences to describe people, places, and things.	Read appropriate level texts determining main ideas and asking and answering questions about texts. Use illustrations to describe key ideas. Use print and digital text to locate key facts or information. Listen to text above their current reading level and identify the main ideas.	Use simple transition words and phrases to signal event order.	Write basic sight words and phrases, while composing simple sentences or phrases.	Gather and use information from print and digital sources.	Participate in conversations of short duration. Collaborate in groups. Respond to the comments of others.

The math and quantitative reasoning levels include many pathways, so no single course will meet all outcomes. Some courses may contain multiple levels, so select the level that contains the outcomes that best represent the level at which the student completes the course (not enters the course). That is, upon completion of this course, the student will be able to:

Mathematics and Quantitative	Quantitative and Mathematical Practices	Number Sense and Operations, Solving	Geometry, Measurement,	Algebraic and Critical Thinking, Applications	Data Analysis, Statistics
Reasoning		Equations	Graphing		
		B21 A or Level 6-Second	_ • ` `		
CB21A	Demonstrate quantitative	Solve a variety of	Create, analyze and	Apply algebra skills to a	Calculate and interpret
	reasoning using units,	nonlinear equations	interpret graphs of	variety of applications	measures of central
Based on previous	precise definitions,	such as logarithmic,	linear and non-linear	such as:	tendency.
CB21A outcomes and	mathematical terms and	inverse, quadratic,	relations.	growth and decay,	
the federal	notation.	absolute value,		logical reasoning,	Discuss the
Educational		rational, and radical.	Solve problems	geometry,	implications of data
Functioning Levels	Create algebraic and		involving similarity	optimization, and	collection,
(EFL).	geometric models to	Demonstrate an	and congruence	quadratic functions with	experimental design,
	solve mathematical	understanding of the	criteria for triangles.	applications in areas such	correlation vs.
	problems, interpret data,	set of irrational		as motion, mixture, and	causation and ethics
	make inferences, and	numbers (radicals and	Use volume formulas	work.	when conducting a
	determine the	rational exponents),	for cylinders,		statistical study.
	reasonableness of the	real numbers, and	pyramids, cones, and	Manipulate polynomial,	
	results.	complex numbers.	spheres to solve	rational, and exponential	Summarize, represent,
			problems.	expressions.	and interpret data
		Demonstrate an			based on two
		understanding of	Use formal arguments	Use equations/inequalities	categorical and
		consequences and propagation of	to support conjectures and theorems.	to solve problems both algebraically and	quantitative variables.
		rounding errors.		graphically.	Compare data sets by
					looking at
				Construct, graph,	commonalities,
				compare, and interpret	differences, and
				functions and relations in	measures in shape,
				linear, quadratic, and	center, and spread.
				exponential, logarithmic,	
				and conic section forms.	Identify possible
					associations and trends
					in data, particularly in
					linear models.

	CB21	B or Level 5-High Inter	mediate (2 levels below to	ransfer)	
CB21B	Define and manipulate	Solve any linear	Plot points and graph	Use algebraic and	Apply elementary
	linear expressions and	equation, a variety of	linear equations on a	graphical representations	concepts of
Based on previous	polynomials.	2-variable linear	Cartesian coordinate	to solve contextualized	random sampling to
CB21B outcomes and		equations (systems)	system.	mathematical problems,	make observations
the EFLs.	Demonstrate critical	and factorable		involving linear equations,	about a single
	thinking by using an	quadratic equations.	Solve contextualized	inequalities, systems of	population and two
	efficient strategy for		mathematical problems	two linear equations in	populations using the
	solving multi-step	Solve contextualized	that involve volume	two variables, and	ideas of mean, median,
	problems.	mathematical	and surface area of 3-	interpret the solution(s) in	mode, and variability.
		problems that involve	dimensional geometric	the context of the	
	Create algebraic and	factoring polynomials.	figures.	problem.	
	geometric models to				
	solve problems.	Apply ratio and	Use informal		
		percent concepts,	arguments to support		
		including rates and	conjectures and		
		proportional	theorems on angle		
		relationships to solve	relationships.		
		multi-step problems.			
			Use the Pythagorean		
			theorem to determine		
			distance in the		
			coordinate plane and in		
			applications.		

	CB21 C or Level 4-Middle Intermediate (3 levels below transfer)						
CB21C	Define and manipulate	Solve simple linear	Graph solutions to	Apply a known formula to	Summarize and		
	signed numbers and	equations in one	linear equations and	a given situation.	describe numerical		
Based on previous	variables.	variable.	inequalities in one		data sets in relation to		
CB21C outcomes and			variable on the number	Explain connections	their context, including		
the EFLs.	Demonstrate critical	Use the number line	line.	among proportional	determining basic		
	thinking in solving	and the rectangular		relationships, lines, and	measures of center and		
	multi-step problems,	coordinate system	Solve contextualized	linear equations.	spread.		
	using mathematical	appropriately.	mathematical problems				
	terms and notation		that involve angle	Describe numerical and	Describe patterns and		
	appropriately.	Apply the concept of	measure,	formulaic expressions and	unusual deviations		
		absolute value to find	circumference, and	equations, then use them	from patterns.		
	Calculate accurately and	horizontal and vertical	area of 2-dimensional	to solve contextualized			
	use estimation strategies	distances.	figures.	mathematical problems.	Explain and apply the		
	to assess the				concept of probability		
	reasonableness of results.	Apply the properties of	Explain congruence		at the introductory		
		integer exponents, and	and similarity with		level.		
		evaluate, estimate, and	respect to 2-				
		compare simple square roots and cube roots.	dimensional figures.				
		Tools and cube foots.	Use the Pythagorean				
		Demonstrate an	theorem (triples) to				
		understanding of ratio,	determine missing				
		rate, percent concepts,	lengths in right				
		and proportional	triangles.				
		relationships.	urangics.				

	CB 21 D or Level 3-Low Intermediate (4 levels below transfer)							
CB21D	Define and manipulate	Introduce concepts and	Demonstrate a basic	Apply the correct	Describe simple data			
	rational numbers.	symbols of equality	understanding of the	operation to a given	sets using concepts as			
Based on previous		and inequality.	number line and	situation.	center, spread, and the			
CB21D outcomes and	Solve multi-step		coordinate plane, and		overall shape of a			
the EFLs.	contextualized	Clarify and perform	plot points (i.e.,	Convert arithmetic	distribution of data.			
	mathematical problems,	calculations using all	ordered pairs) and	expressions to algebraic	_			
	explain the work, and	four operations on	place polygons in the	expressions using a	Present data sets			
	use correct units.	multi-digit whole	coordinate plane to	symbol to represent an	graphically.			
		numbers and decimals:	solve problems.	unknown value.				
	Use diagrams or sketches	place value, read,	TT C 1 4	337 ' ' 1 ' 1'.				
	and identify multiple	write, count, compare,	Use formulas to	Write a simple inequality				
	strategies for solving a problem.	round.	determine the area of two-dimensional	that represents a constraint or condition.				
	Freezen	Demonstrate an	shapes such as					
		understanding of	triangles and					
		common factors,	quadrilaterals.					
		common multiples in	•					
		determining equivalent	Determine the surface					
		fractions and	area of three-					
		comparing fractions.	dimensional shapes					
			composed of					
		Use concepts in ratio	rectangles and					
		to describe the	triangles, and find the					
		relationship between	volume of right					
		two quantities and the	rectangular prisms.					
		unit rate associated	C - 1					
		with a ratio.	Solve measurement word problems (such					
		Explain ordering of a	as those that involve					
		full set of rational	area, perimeter,					
		numbers, including	distance, time					
		both negative and	intervals, liquid					
		positive fractions.	volumes, mass, and					
		r	money) that involve					
			simple fractions or					
			decimals.					

	CB21 E or Level 2-Beg	inning Basic (5 levels bel	ow transfer, generally no	t used for credit courses)	
CB21E	Use diagrams or sketches	Demonstrate an	Partition shapes into	Solve for the unknown	Solve one- and two-
	to model mathematical	understanding of	parts with equal areas	number in equations	step problems using
Based on EFLs.	problems.	three-digit whole	and describe each part	consisting of	scaled bar graphs.
		numbers: place value,	as a fraction of the	multiplication or division.	
	Explain processes and	read, write, count,	whole.		Generate measurement
	results using	compare, round.			data by measuring
	mathematical terms and		Solve problems		lengths to the nearest
	symbols appropriately.	Solve one and two step	involving U.S.		half- and quarter-inch,
		application problems	Customary and metric		and display that data
	Identify patterns and	using the four	units for measurement		by making a line plot
	structure in sets of	operations on three-	and estimation of		marked off in
	numbers, including in	digit whole numbers.	intervals of time,		appropriate units.
	multiplication or addition		liquid volumes, and		
	tables.	Describe simple	masses of objects.		
		factions: unit fractions,			
		representation on a	Describe the concept		
		number line,	of and solve problems		
		equivalent fractions,	involving area and		
		comparing fractions	perimeter in relation to		
		with same numerator	addition and		
		or denominator.	multiplication.		
		ning Literacy (6 levels be		not used for credit courses)	
CB21F	Solve simple	Demonstrate an	Describe or draw 2-	Solve addition and	Organize, represent,
	contextualized	understanding of two-	dimensional and 3-	subtraction problems.	and interpret simple
Based on EFLs.	mathematical problems.	digit whole numbers:	dimensional shapes		data sets.
		place value, read,	based on attributes,	Solve for the unknown	
	Identify patterns and	write, count, compare,	such as shape, size,	number in equations	
	structure in sets of	round.	orientation, number of	consisting of addition or	
	numbers and geometric		sides and/or vertices	subtraction.	
	shapes.	Solve one and two step	(angles), or the lengths		
		application problems	of sides.		
		using the four			
		operations on two-	Create composite		
		digit whole numbers.	shapes from typical		
			two-dimensional		
			shapes.		

California Community Colleges Management Information System Data Element Dictionary

Course Data Elements

CB26	COURSE-SUPPORT-COURSE-STATUS	X(01)
DED#	DATA ELEMENT NAME	FORMAT

This element indicates whether a course is associated with another degree-applicable course for the purpose of providing the support necessary to complete the associated course.

Coding	Meaning
S	Course is a support course
N	Course is not a support course

CB26 COURSE-SUPPORT-COURSE-STATUS

Processing Edits	
FIELD CHECK	S, N

CB26 COURSE-SUPPORT-COURSE-STATUS

Change History	
Implement: 2019-20 Reporting	

MEMORANDUM

June 5, 2019



Via Email

TO: Chief Information System Officers

MIS Data Coordinators MIS Data Submission Staff

FROM: Todd Hoig

Director of Management Information Systems

SUBJECT: MIS Data Submission Updates

SYNOPSIS: This memo is to advise you of changes critical to MIS data collection and processing.

Please read the following information carefully.

Dear Colleagues:

The specification for the new CB25 COURSE-GENERAL-EDUCATION-STATUS data element has been modified. This new element was announced in the memo sent May 9, 2019 and will be collected in MIS data submission for the 2019-20 academic year and resubmission of data for prior years and terms occurring after the MIS data submission maintenance window scheduled for August 8, 2019 through August 22, 2019. The attached specification supersedes the previous specification.

This change is in addition to the updates to MIS data submission to take effect in August 2019 which were previously communicated in memos sent April 5, 2019 and May 9, 2019. The updates to data element definitions will be posted to the data element dictionary (http://extranet.ccco.edu/Divisions/TechResearchInfoSys/MIS/DED.aspx) as soon as possible.

CB Course Data Reporting

One previously communicated new element specification has been modified.

CB25 COURSE-GENERAL-EDUCATION-STATUS has been modified

If you have questions or concerns, please send them to cccmisedit@cccco.edu

ATTACHMENTS: CB25.pdf

California Community Colleges Management Information System Data Element Dictionary

Course Data Elements

DED#	DATA ELEMENT NAME COURSE-GENERAL-EDUCATION-STATUS	FORMAT X(01)
CB25	COURSE-GENERAL-EDUCATION-STATUS	X(01)

This element indicates whether a course fulfills general education requirements for mathematics/quantitative reasoning or English composition in the context of transfer, degree, and certificate programs.

Coding	Meaning
А	Course meets any of the following:
	CSU General Education Breadth Area A2: Written Communication CSU General Education Breadth Area A3: Critical Thinking UC IGETC Area 1A: English Composition UC IGETC Area 1B: Critical Thinking-English Composition
	OR
	Course has a general education certification or articulation agreement that ensures the course fulfills English composition requirements at an accredited four-year institution
	OR
	Course fulfills local general education requirements for English Composition as outlined in Title 5 Section 55063

California Community Colleges Management Information System Data Element Dictionary

Course Data Elements

Coding	Meaning
В	Course meets any of the following:
	CSU General Education Breadth Area B4: Mathematics/Quantitative Reasoning UC IGETC Area 2: Mathematical Concepts and Quantitative Reasoning OR
	Course has a general education certification or articulation agreement that ensures the course fulfills mathematics or quantitative reasoning requirements at an accredited four-year institution
С	Course is not transferrable to fulfill general education mathematics or quantitative reasoning at a four-year institution, but fulfills local general education requirements for Analytical Thinking or Mathematics Competency as outlined in Title 5 section 55063
Y	Not Applicable

CB25 COURSE-GENERAL-EDUCATION-STATUS

Processing Edits	
FIELD CHECK	A, B, C, Y
INTEGRITY CHECK	If CB25 is coded as A or B, Course-Transfer-Status (CB05) must be coded as A or B
	If CB25 is coded as C, Course-Credit-Status (CB04) must be coded as D
	If Course-Prior-to-College-Level (CB21) is coded as two or more levels below transfer (B, C, D, E, F, G, or H), CB25 must be coded as Y

CB25 COURSE-GENERAL-EDUCATION-STATUS

Change History		
Implement: 2019-20 Reporting		