



April 3, 2024 / 2:30 PM - 4:00 PM

Zoom Link: <https://sdccd-edu.zoom.us/j/86816089430>

	ATTENDEE/PROXY	COMMITTEE POSITION		ATTENDEE/PROXY	COMMITTEE POSITION
	Michael Odu	Vice President of Instruction		Mara Pama-Sanft	Articulation Officer
	Darren Hall	Curriculum Chair, (Fire Technology Program Faculty)		Isabella Ela	Counseling
	Paul Chlapecka	BTCWI, (AVIM Program Faculty)		Veronica Hartmann	Counseling
	Matthew Cain	MBEPS (Exercise Science Professor)		Meilani Peleti	District Evaluator
	Amy Alsup	Liberal Arts (Behavioral Sciences Faculty)		Evelyn Escalante	District Evaluator
	Scott Moller	Public Safety (Administration of Justice Program Faculty)		Jamie Hammond	District Evaluator
	Brenda Wilborn	Math SME (Non Voting Member) (Math Faculty)		Melanie Cordero	Support
				Akili Ploudre	Student ASG, Treasurer

- I. **Call to Order**
- II. **Approval of Agenda**
- III. **Approval of Minutes (March 13, 2024)**
- IV. **Approval of Consent Agenda**
- V. **Special Presentation - Math 141B Update Julia McMenamin, Assistant Math Chair**
- VI. **Course Proposals**

*****Note: Links are not yet available for CurriuQnet Meta*****

TIME	MIRAMAR CURRICULUM	REQUESTED ACTION	FACULTY-ORIGINATOR
	Certificate of Achievement Miramar: Entrepreneurship	Program Revision	Business & Paralegal Tanya Hertz
	Certificate of Performance Miramar: Independent Business Ownership	Program Revision	Business & Paralegal Tanya Hertz



	WORK 272 - General Work Experience	Credit Course Activation (Currently active at another college)	Business & Paralegal Duane Short
	MUSI 261B - World Music Ensemble II	Credit Course Activation (Currently active at another college)	Channing Booth
	MUSI 261C - World Music Ensemble III	Credit Course Activation (Currently active at another college)	Channing Booth
	MUSI 261D - World Music Ensemble IV	Credit Course Activation (Currently active at another college)	Channing Booth
	MUSI 261A - World Music Ensemble I	Credit Course Activation (Currently active at another college)	Channing Booth
	BUSE 101 - Business Mathematics	Credit Course Revision (May Include Activation)	Business & Paralegal Duane Short
	Associate in Science for Transfer Degree Miramar: Business Administration 2.0	Program Revision	Business & Paralegal Duane Short
<i>*May require walk-in to CIC.</i>			
MIRAMAR DE ONLY CURRICULUM: CONSENT AGENDA		REQUESTED ACTION	FACULTY-ORIGINATOR
	PSYC 166 - Introduction to Social Psychology	Credit Course Revision (May Include Activation)	Nicholas Aramovich
<i>*May require walk-in to CIC.</i>			
NON-DE CURRICULUM: CONSENT AGENDA			
	None at this time		
<i>*May require walk-in to CIC.</i>			

PROPOSALS FROM ANOTHER COLLEGE (ALSO ACTIVE AT MIRAMAR COLLEGE) - CURRICULUM	REQUESTED ACTION	ORIGINATING COLLEGE	FACULTY-ORIGINATOR
PSYC 155 - Introduction to Personality	Credit Course Revision (May Include Activation)	MESA	Justin Estep
JOUR 202 - Introduction to Mass Communication	Credit Course Deactivation *(Active at another College)*	CITY	CurriQunet Admin



ARTF 170A - Contemporary Crafts I	Credit Course Revision (May Include Activation)	CITY	Terri Hughes-Oelrich
<i>**Campus requested walk-in to CIC</i>			

PROPOSALS FROM ANOTHER COLLEGE (NOT ACTIVE AT MIRAMAR COLLEGE) - CURRICULUM	REQUESTED ACTION	ORIGINATING COLLEGE	FACULTY-ORIGINATOR
DENA 139 - Dental Radiography II	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 138L - Dental Radiography Lab	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 138 - Dental Radiography I	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 118L - Dental Materials - Lab	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 118 - Dental Materials	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 083A - Directed Clinical Practice	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 082L - Dental Specialties II Lab	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 82 - Dental Specialties II	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 062L - Dental Specialties I Laboratory	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 062 - Dental Specialties I	Credit Course Revision (May Include Activation)	MESA	Karen Wait
DENA 058 - Preventive Dental Care	Credit Course Revision (May Include Activation)	MESA	Karen Wait
Associate of Science Degree Mesa: Dental Assisting (RDA, CDA)	Program Revision	MESA	Karen Wait
Certificate of Achievement Mesa: Dental Assisting (RDA, CDA)	Program Revision	MESA	Karen Wait
RADT 257B - Directed Clinical Practice V	Credit Course Revision (May Include Activation)	MESA	Kimberly Mills
RADT 241 - Sectional Anatomy	Credit Course Revision (May Include Activation)	MESA	Kimberly Mills

CACM 222 - Preservation of Meat Lab	Credit Course Revision (May Include Activation)	MESA	Tonya Whitfield
CACM 220 - Meat Butchery - Whole Animal Lab	Credit Course Revision (May Include Activation)	MESA	Tonya Whitfield
CACM 218 - Seafood Fabrication - Whole Fish Lab	Credit Course Revision (May Include Activation)	MESA	Tonya Whitfield
CACM 215 - Advanced Pastry	Credit Course Revision (May Include Activation)	MESA	Tonya Whitfield
CACM 214 - Advanced Baking	Credit Course Revision (May Include Activation)	MESA	Tonya Whitfield
CACM 212 - Baking and Pastry	Credit Course Revision (May Include Activation)	MESA	Tonya Whitfield
CACM 132C - Meat Identification & Processing	Credit Course Revision (May Include Activation)	MESA	Tonya Whitfield
CACM 132B - Seafood Identification & Processing	Credit Course Revision (May Include Activation)	MESA	Tonya Whitfield
REAL 151 - Real Estate Computer Applications	Credit Course Deactivation (Not at any College)	CITY	Shana Carr
INWT 185 - AWS Cloud Foundations (CF)	Credit Course Deactivation (Not at any College)	CITY	
INWT 102 - Information Technology (IT) Fundamentals	Credit Course Deactivation (Not at any College)	CITY	
DRAM 128 - Stage Lighting Design	Credit Course Revision (May Include Activation)	CITY	Katherine Rodda
CISC 221 - Intermediate Computer Game Programming	Credit Course Revision (May Include Activation)	CITY	Bahnem Salemi
BUSE 052 - Introduction to Online Learning	Credit Course Deactivation (Not at any College)	CITY	Shana Carr
<i>**Campus requested walk-in to CIC</i>			

FYI CURRICULUM	REQUESTED ACTION	ORIGINATING COLLEGE	FACULTY-ORIGINATOR
<i>No curriculum at this time.</i>			



***Campus requested walk-in to CIC*

VII. Other Business

VIII. CIC Update

- **AB 1705 Impacts: MATH 121 Prerequisite MATH 116**
- **Gainful Employment Transparency**
- **AB 1705 AB 1705 STEM Calculus Pathway Placement and First Math Course Enrollment Analysis (See attachment)**
- **Miramar Activation Engineering (ENGE) Subject Area (Approved at CIC)**

IX. Policies and Procedures

X. Guided Pathways Update

XI. VPI Update

XII. Articulation Update

XIII. CRC Chair Update

- CurriQnet Meta
 - Training - Starts March 1, 24 10:30
 - <https://sdccd-edu.zoom.us/j/89345223862>

XIV. Next Meeting: April 3, 2024, 2:30pm-4:00pm, Building R Conference Room

[2023-2024 CRC and Technical Review meeting dates](#)
[Sign up for 2023-2024 Technical Review Meetings](#)
[Curriculum Committee Remote Attendance Form](#)
[Curriculum Technical Review Subcommittee](#)
[Curriculum Committee Meeting Zoom Link](#)

Resources and Links:

- [Miramar Articulation](#)
- [Miramar College Curriculum Committee](#)
- [DE Default language](#)
- [SDCCD Instructional Services Office](#)
- [State Chancellor's Curriculum and Instruction Unit](#)
- [Miramar Jets Athletics Schedule](#)

AB 1705 STEM Calculus Pathway Placement and First Math Course Enrollment Analysis: San Diego Miramar College

Purpose: This analysis is provided by the state Chancellor’s Office and The RP Group to support colleges in AB 1705 validation of placement policies and enrollment practices for the STEM Calculus pathway. The analysis presented here uses your college’s data to replicate the statewide analysis presented in the report [Preparatory Pathways and STEM Calculus Completion: Implications of the AB 1705 Standards](#). Please use this data to inform your AB 1705 planning and certification decisions. Colleges may choose to submit local data by July 1, 2024. Questions about your college’s data or this analysis can be submitted to ab705@cccoco.edu.

i Summary of San Diego Miramar College Analysis

For the cohorts of STEM Majors analyzed in this report, we offer the following observations. Observations based on an analysis of ALL students who start in preparatory courses in the STEM Calculus pathway, rather than the subset of STEM majors, may differ.

- Lowest STEM Placement students who started in STEM Calculus 1 at your college were not “highly unlikely to succeed.” (STEM Calculus 1 completion is greater than 15%.)
- Lowest STEM Placement students who started in any preparatory course in the STEM Calculus Pathway at your college had lower STEM Calculus 1 completion (throughput) in two years than those who started in STEM Calculus 1.
- More than 50% of Lowest STEM Placement students who started in **MATH141** completed STEM Calculus 1 in two years.
- Students in the higher placement group who started in a preparatory course prior to STEM Calculus 1 were repeating coursework that they previously passed in high school, which is no longer permitted under AB 1705.
- The data provided in this report do not provide evidence that placement and enrollment practices for the STEM Calculus pathway at your college meet AB 1705 standards. However, the analysis does support interim course approval for MATH141 as an option for Lowest STEM Placement students.

Please refer to the guidance memo **ESLEI 24-15** for your options and next steps.

Operationalizing AB 1705 STEM standards for local validation:

For this analysis, we define a Lowest STEM Placement group to identify students who may be highly unlikely to succeed if they take STEM Calculus 1 as their first math course and for whom additional transfer-level preparation may improve the probability that they persist to and successfully complete STEM Calculus 1 and Calculus 2.

Lowest STEM Placement group: Students who have not passed high school trigonometry, precalculus or calculus with a C or better OR have a HS GPA ≤ 2.6 .

A preparatory course in the STEM Calculus pathway is validated as compliant with AB 1705 standards when all of the following are true:

1. Lowest STEM Placement students are highly unlikely to succeed in STEM Calculus 1 if they start in STEM Calculus 1. (Calculus 1 throughput in two-years is less than 15%.)
2. Lowest STEM Placement students have a higher STEM Calculus 1 throughput in two-years when starting in the preparatory course compared to starting in Calculus 1.
3. Lowest STEM Placement students have a higher STEM Calculus 2 throughput in two-years when starting in the preparatory course compared to starting in Calculus 1.

A preparatory course in the STEM Calculus pathway has interim status when:

The Lowest STEM Placement students who start in the preparatory course have a STEM Calculus 1 throughput in two years of 50% or greater.

Methodology

The analysis below is based on data your college reported to the California Community College's Chancellor's Office's Management Information System (COMIS) and CCCApply. The cohort (labeled All Students) includes non-dual enrolled students at your college with a Degree/Transfer or Undecided education goal whose first math course was a transfer-level course in the STEM Calculus pathway in the academic years 2019-2020, 2020-2021, or Fall 2021, excluding those starting in summer. STEM majors are a subset of the All Students cohort. See Additional Methodology notes at the end of this report for more information on the definition and identification of STEM majors.

Because AB 1705 connects STEM Calculus completion with transfer-level math placement and initial math enrollment, the analysis uses throughput as the outcome metric. Calculus throughput rate (TR %) is the percentage of students who successfully complete (C or better) STEM Calculus 1 or 2 within a given timeframe out of the count who started in a specified course in the calculus pathway. Students were tracked to determine whether they completed STEM Calculus 1 within two years and STEM Calculus 2 within three years, anywhere within the community college system.

STEM Calculus 1 is a course equivalent to C-ID Math 210, 211 or the first half of Math 900S. STEM Calculus 2 is a course equivalent to C-ID Math Math 220, 221 or the second half of Math 900S. The identification of STEM majors requiring STEM Calculus was based on C-ID Transfer Model Curricula (TMC).

Additional information about the methodology is provided at the end of this document.

Analysis

Table 1. Student Headcount by Cohort Year

To allow for two-year throughput calculations, 2019-2020, 2020-2021, and Fall 2021 cohorts were used. The cohort is All Students, which is students who demonstrated STEM intent by starting math in a transfer-level course in the college's path to STEM Calculus 1. STEM Majors are a subset of All Students.

Cohort	STEM Majors	All Students
2019-2020	88	151
2020-2021	91	187
Fall 2021	83	171
Total	262	509

Table 2. Student Headcount by First CCC Math Course

First CCC Math	STEM Majors	All Students
Trigonometry	164	335
Precalculus	52	89
STEM Calculus 1	46	85
Total	262	509

* Data is suppressed in throughput tables below if $n < 10$. Table 5 provides details on the courses included and their categorization in the RP Group Math Typology.

Table 3. Two-Year STEM Calculus 1 Throughput by First CCC Calculus Pathway Course

	First CCC Math	STEM Majors		All Students	
		Cohort	2-Yr TR %	Cohort	2-Yr TR %
Lowest STEM Placement Group	Trigonometry	149	32%	301	21%
	Precalculus	43	58%	73	48%
	STEM Calculus 1	23	70%	42	71%
All Higher Placements	Trigonometry	15	13%	34	18%
	Precalculus	*	*	16	44%
	STEM Calculus 1	23	100%	43	98%

* Data is suppressed if $n < 10$.

Figure 1. Two-Year STEM Calculus 1 Throughput by First CCC Calculus Pathway Course

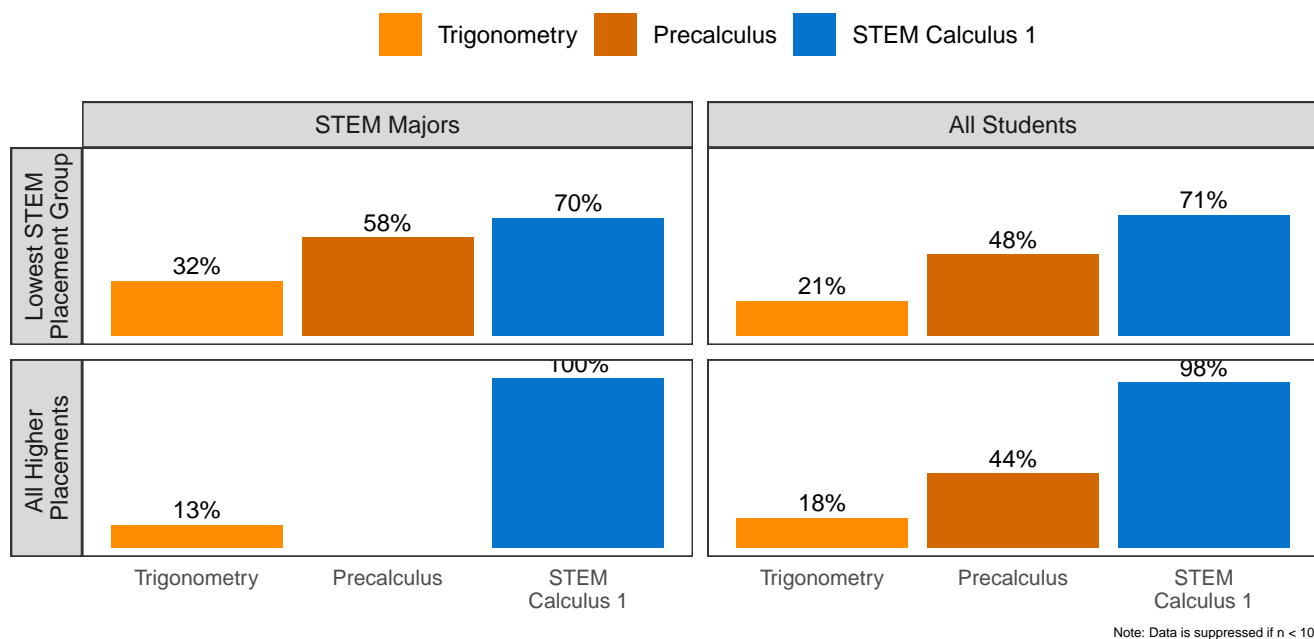


Table 4. Three-Year STEM Calculus 2 Throughput by First CCC Calculus Pathway Course

Only 2019-2020 and Fall 2020 cohorts were included for the Calculus 2 throughput analysis to allow for a full three-year observation window. Because it is not possible to identify students in the All Students group who are in programs that require Calculus 2, we include only STEM majors in this analysis and exclude Biology majors since the Biology Transfer Model Curriculum (TMC) only requires one semester of calculus.

	First CCC Math	STEM Majors	
		Cohort	3-Yr TR %
Lowest STEM Placement Group	Trigonometry	58	21%
	Precalculus	21	33%
	STEM Calculus 1	*	*
All Higher Placements	Trigonometry	*	*
	Precalculus	*	*
	STEM Calculus 1	11	82%

* Data is suppressed if n < 10.

Figure 2. Three-Year STEM Calculus 2 Throughput by First CCC Calculus Pathway Course

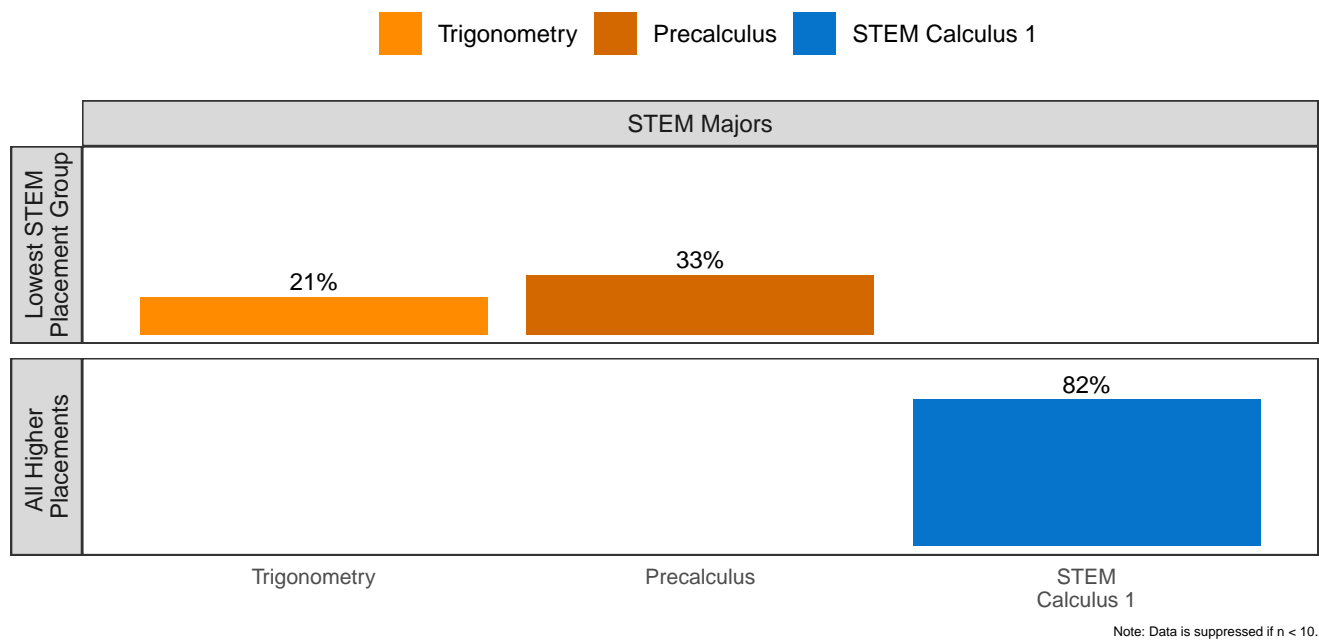


Table 5. Courses Included Analysis by Math Typology Category

The table below contains all San Diego Miramar College courses with enrollments during the time frame considered in this college-specific analysis.

CB00	Local Course ID	Course Title	Math Typology Category
CCC000371942	MATH104	Trigonometry	Trigonometry
CCC000357539	MATH141	Precalculus	Precalculus
CCC000357873	MATH150	Calculus/Analytic Geometry I	STEM Calculus 1

Additional Methodology Notes

The identification of STEM majors requiring STEM Calculus was based on C-ID Transfer Model Curricula (TMC). Biology is excluded from the STEM Calculus 2 pathway analysis because the TMC for biology does not include Calculus 2. The following TOP Codes were used to identify STEM majors: 1905.00, 0706.00, 0707.00, 0707.10, 0901.00, 1914.00, 1701.00, 1902.00, 0401.00, 4902.00.

Data for high school preparation was obtained from CCCApply self-reported high school information. Students with no high school data from CCCApply (missing both GPA and highest high school course passed or attempted) are excluded from the analysis since they could not be assigned to a placement group.

STEM Calculus 1 is defined as the first calculus course required for STEM majors and excludes business calculus and other forms of applied calculus.