## Merritt College

## 2017-2018 Annual Program Update Template

## Merritt College Data Profile: Fall 2016 and Spring 2017

*Note: Headcount is unduplicated number of students per term. Retention and Success is based on Enrollments, which are duplicated.


|  | Fall 2016 |  | Spring 2017 |  |
| ---: | :---: | :---: | :---: | :---: |
| Gender | Retention \% | Success \% | Retention $\%$ | Success \% |
| Female | $78 \%$ | $66 \%$ | $79 \%$ | $70 \%$ |
| Male | $78 \%$ | $65 \%$ | $79 \%$ | $68 \%$ |
| Unknown/Unreported | $83 \%$ | $72 \%$ | $82 \%$ | $75 \%$ |
| Race/Ethnicity | Retention \% | Success \% | Retention \% | Success \% |
| American Indian | $83 \%$ | $77 \%$ | $74 \%$ | $60 \%$ |
| Asian | $83 \%$ | $76 \%$ | $84 \%$ | $78 \%$ |
| Black / African | $73 \%$ | $57 \%$ | $74 \%$ | $60 \%$ |
| American |  |  |  |  |
| Hispanic /Latino | $76 \%$ | $65 \%$ | $80 \%$ | $70 \%$ |
| Pacific Islander | $79 \%$ | $69 \%$ | $80 \%$ | $74 \%$ |
| Two or More | $77 \%$ | $65 \%$ | $78 \%$ | $66 \%$ |
| Unknown / NR | $82 \%$ | $69 \%$ | $83 \%$ | $72 \%$ |
| White | $85 \%$ | $78 \%$ | $85 \%$ | $78 \%$ |
|  |  |  |  |  |
| Age Range | Retention $\%$ | Success \% | Retention $\%$ | Success \% |
| Under 16 | $82 \%$ | $82 \%$ | $94 \%$ | $89 \%$ |
| $16-18$ | $78 \%$ | $65 \%$ | $82 \%$ | $74 \%$ |
| 19-24 | $75 \%$ | $62 \%$ | $76 \%$ | $65 \%$ |
| $25-29$ | $77 \%$ | $66 \%$ | $79 \%$ | $70 \%$ |
| $30-34$ | $82 \%$ | $71 \%$ | $81 \%$ | $71 \%$ |
| $35-54$ | $81 \%$ | $70 \%$ | $82 \%$ | $74 \%$ |
| $55-64$ | $83 \%$ | $71 \%$ | $85 \%$ | $73 \%$ |
| 65 \& Above | $84 \%$ | $78 \%$ | $85 \%$ | $72 \%$ |

Distance
Education

|  | Fall 2016 |  | Spring 2017 |
| ---: | :---: | :---: | :---: | :---: |
| Retention and Success by Distance Ed | Retention \% | Success \% | Retention \% |
| $100 \%$ online | $70 \%$ | $62 \%$ | $74 \%$ |
| Hybrid | $69 \%$ | $53 \%$ | $74 \%$ |
| Face to Face | $80 \%$ | $69 \%$ | $81 \%$ |

## I. Program Information

Purpose: This section will identify basic information about your program. 2015-2016 Program reviews and 2016-2017 APU can be found at:
http://www.merritt.edu/wp/institutional-research/program-review/

## Program Name: Mathematics

Date: 10/13/2017

Program Type (circle or highlight one): Instructional Non-Instructional Student Services or Special Programs Administrative Unit

College Mission Statement: The mission of Merritt College is to enhance the quality of life in the communities we serve by helping students to attain knowledge, master skills, and develop the appreciation, attitudes and values needed to succeed and participate responsibly in a democratic society and a global economy.

## Program Mission:

The Mathematics Department's mission is to offer lower division college math courses needed for the associate in arts and associate in science degrees, vocational certificates, and transfers to four-year colleges. These courses are intended as the first two years of college math courses and as such have been designed to satisfy the general education requirements for graduation as well as the requirements for transfer. In addition, the department offers the Associate in Science degree in mathematics for Transfer (AS-T) and remedial courses covering the math content of high school courses from arithmetic to intermediate algebra. Mathematics is the language of the sciences and as such these courses are needed as prerequisite to science courses and student success in general.

Date of Last Comprehensive Program Review: September 26, 2015
Date of Comprehensive Program Review Validation: October 31, 2016
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## II. Reporting Progress on Attainment of Program Goals

Purpose: In this section, you will look at your goals stated in the 2015-2016 program review and 2016-2017 APU, align the program goals with the District and College Goals, and report on the progress, revision, or completion of the program goals.

| Program Goal <br> *Copy the Goals Reported from Program Review Question 10 or Appendix B, or 16-17 APU Section II or input the new/revised goal. These are suggested categories of goals. | Which institutional goals will be advanced upon completion? <br> (PCCD and MC Goal Mapping) | Progress on Goal <br> (indicate date next to the appropriate status for the goal) | Goal Detail and Measurement - How did you/will you evaluate this Goal? <br> (If your goal was completed: How did you evaluate or determine the outcome? <br> If your goal is ongoing: What is your measure and target? If your goal is new or revised: What is your measure and target?) |
| :---: | :---: | :---: | :---: |
| Assessment <br> Improve assessment scores and /or increase placement scores by $15 \%$ for each cohort of students. <br> Increase the number of students who place in math 201 by $15 \%$. <br> Please revisit this <br> Are you still looking to increase placement in math 201? <br> Can a goal be set for success rate for math pathways courses? <br> Can we use Moving In Moving Through, Moving On Language? | $\begin{aligned} & \text { 1. PCCD Goal: __ } \underline{\text { A }}, \\ & \underline{\mathrm{C}} \end{aligned}$ <br> 2. Merritt Goal: $\qquad$ A, C | Completed: $\qquad$ (date) <br> Revised/New: $\qquad$ <br> Ongoing: $-\frac{10 / 13 / 17}{\text { (date) }}$ | All items in the previously stated goal are activities which will support students in scoring higher on assessment tests, ultimately, shortening the pathway to transfer level math courses. <br> Interventions: <br> Math Jam - Serve at least 50 math students with pre-assessment activities whose aim is to increase student scores on assessment tests. <br> Work closely with the Counseling Department to offer Study Skills/Learning Resources classes and/or workshops, and to improve Math Placement Testing. <br> Online Modular Test prep Are there still plans for this? Challenges: <br> Some students may not seek support before taking the assessment. <br> Coordinating support services may be Challenging. <br> Promotion of the assessment program. |


| Program Goal <br> *Copy the Goals Reported from Program Review Question 10 or Appendix B, or 16-17 APU Section II or input the new/revised goal. These are suggested categories of goals. | Which institutional goals will be advanced upon completion? <br> (PCCD and MC Goal Mapping) | Progress on Goal <br> (indicate date next to the appropriate status for the goal) | Goal Detail and Measurement - How did you/will you evaluate this Goal? <br> (If your goal was completed: How did you evaluate or determine the outcome? <br> If your goal is ongoing: What is your measure and target? If your goal is new or revised: What is your measure and target?) |
| :---: | :---: | :---: | :---: |
| Curriculum (if applicable) <br> Goal 1: <br> Develop curriculum for math courses which allow students to complete a transfer level math course in 3 semesters after college entry. <br> Identify a cohort of students who are not in the 3 course pathway and compare to success rates in the traditional pathway. Has a cohort of students been identified? <br> Goal 2: Add at least 1 curriculum addendum to a course to enable at least 1 course to be taught online or hybrid (math 13 or math 203) There should be movement on this goal since last year. Is there a way to initiate this? <br> Goal 3: Institutionalize math Jam as a noncredit course to support student learning (through a college readiness certificate program) | 1. PCCD Goal:_A,C,D <br> 2. Merritt Goal: _A,C,D | Completed: $\qquad$ (date) <br> Revised/New: $\qquad$ <br> Ongoing: $\frac{10 / 13 / 17}{\text { (date) }}$ | The Basic Skills and Student Outcomes <br> Transformation Grant will enable the math department to develop and <br> pilot a new pre-algebra and statistics pathway <br> (Math 240) which focus to non-science majors. <br> Math Jam will allow students to take placement tests with recently refreshed foundational skills. <br> Based on results from math jam, some students are able to place into a higher math courses and shorten their path to transfer. <br> Since we currently do not offer Online math courses, new curriculum must be developed. <br> Instructors must be trained to deliver courses in this format. <br> Students may not want to purchase the tools which are necessary to be successful in an online format. <br> Distance Addendum for Course? (Math 13?) in projected to be in process by Decemeber 2017 <br> Identify Merritt instructor who can deliver instruction online or who will participate in the Merritt DE program to teach hybrid section. |
| Instruction (if applicable) <br> Goal 1: <br> Offer the calculus sequence more regularly (at least one section of math $3 A$, math $3 B$, and math $3 C$ ) during the | 1. PCCD Goal:__A <br> 2. Merritt Goal: $\qquad$ A | Completed: $\qquad$ (date) <br> Revised/New: $\qquad$ <br> (date) <br> Ongoing: $\qquad$ 10/13/17 | Increase offering of Calculus sequence courses to build up AS-T Math degree program. <br> Challenges: |


| Program Goal <br> *Copy the Goals Reported from <br> Program Review Question 10 or Appendix B, or 16-17 APU Section II or input the new/revised goal. <br> These are suggested categories of goals. | Which institutional goals will be advanced upon completion? <br> (PCCD and MC Goal Mapping) | Progress on Goal (indicate date next to the appropriate status for the goal) | Goal Detail and Measurement - How did you/will you evaluate this Goal? <br> (If your goal was completed: How did you evaluate or determine the outcome? <br> If your goal is ongoing: What is your measure and target? If your goal is new or revised: What is your measure and target?) |
| :---: | :---: | :---: | :---: |
| 2017-2018 academic year. |  | (date) | Calculus courses have often been cancelled due to low enrollment. More promotion should be done to increase interest in these courses. <br> There is progress on this goal. Additional sections of math $3 \mathrm{~A}, 3 \mathrm{~B}$, and 3 C are being offered simulatenously at merritt college. Enrollment in these sections appears to be stable. |
| Student Success and Student Equity <br> Develop a tutors training program, and hire more math faculty and a Math Lab technician. Is this still a goal? | 1. PCCD Goal: A $\qquad$ <br> 2. Merritt Goal A $\qquad$ | Completed: $\frac{\text { (date) }}{\text { Revised/New: } \frac{10 / 13 / 17}{\text { (date) }}}$ Ongoing: $\frac{\text { (date) }}{\text { __ }}$ | Direct supervision of math tutors, and hire more math faculty and a Math Lab technician. |
| Professional Development, Institutional and Professional Engagement, and Partnerships <br> Goal: <br> Offer at least 1 technology based training to math faculty | 1. PCCD Goal:_A, B, D <br> 2. Merritt Goal_A, B, D | $\begin{aligned} & \text { Completed: } \\ & \text { Revised/New: } \\ & \text { Ongoing: } \frac{\text { date })}{\text { (date) }} \frac{10 / 13 / 17}{\text { (date) }}\end{aligned}$ |  |
| GOAL: |  |  |  |


| Program Goal <br> *Copy the Goals Reported from Program Review Question 10 or Appendix B, or 16-17 APU Section II or input the new/revised goal. <br> These are suggested categories of goals. | Which institutional goals will be advanced upon completion? <br> (PCCD and MC Goal Mapping) | Progress on Goal (indicate date next to the appropriate status for the goal) | Goal Detail and Measurement - How did you/will you evaluate this Goal? <br> (If your goal was completed: How did you evaluate or determine the outcome? <br> If your goal is ongoing: What is your measure and target? If your goal is new or revised: What is your measure and target?) |
| :---: | :---: | :---: | :---: |
| Increase departmental participation in learning center support <br> Goal: <br> Sustain dual partnership opportunities with OUSD and charter schools |  |  |  |
| Other Goals | 1. PCCD Goal: $\qquad$ <br> 2. Merritt Goal $\qquad$ | Completed: $\frac{\text { (date) }}{\text { Revised/New: } \overline{\text { (date) }}}$ Ongoing: $\frac{\text { (date) }}{\text { (d) }}$ |  |

## III. Data Trend Analysis

Purpose: In this section, you will report, review and reflect on your program data. You may copy and paste the tables that were provided to you in your data packet via email.

Please review and reflect upon the data for your program that was sent via email or Dropbox. You will be asked to comment on significant changes in the data and/or achievement gaps. Focus upon the most recent academic year and/or the years since your last comprehensive program review. *If you have questions or concerns regarding your data, please contact Samantha Kessler, Research and Planning Officer: skessler@peralta.edu.

## Student Enrollment Demographics:

| Enrollment Total |  |
| :---: | :---: |
| Term | \# Enrollments |
| Spring | 1155 |
| 2014 |  |
| Fall 2014 | 1167 |
| Spring | 1109 |
| 2015 |  |
| Fall 2015 | 1198 |
| Spring | 1313 |
| 2016 | 1324 |
| Fall 2016 | 1224 |
| Spring | 12017 |


|  | Enrollment Trends |  |  |  |  |  | MATH |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1350 - Enroliment Trends |  |  |  |  |  |  |  |
| $1300 \square$ |  |  |  |  |  |  |  |
| 1250 |  |  |  |  |  |  |  |
| 1200 |  |  |  |  |  |  |  |
| $1150-11$ |  |  |  |  |  |  |  |
| $1100 \sim 1109$ |  |  |  |  |  |  |  |
| 1050 |  |  |  |  |  |  |  |
| 1000 | - |  |  |  |  |  |  |
|  | Spring 2014 | Fall 2014 | Spring 2015 | Fall 2015 | Spring 2016 | Fall 2016 | Spring 2017 |


| Gender | Female | Male | Unknown/Not <br> Reported |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Spring 2014 | 705 | 413 | 37 |
| Fall 2014 | 732 | 410 | 25 |
| Spring 2015 | 726 | 371 | 12 |
| Fall 2015 | 777 | 414 | 7 |
| Spring 2016 | 825 | 480 | 8 |
| Fall 2016 | 821 | 495 | 8 |
| Spring 2017 | 766 | 451 | 7 |



| Term | American <br> Indian | Asian | Black / African <br> American | Hispanic / <br> Latino | Pacific <br> Islander | Two <br> or <br> More | Unknown <br> / NR | White |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Spring 2014 | 9 | 89 | 488 | 342 | 5 | 71 | 37 | 114 |
| Fall 2014 | 6 | 106 | 467 | 392 | 6 | 56 | 41 | 93 |
| Spring 2015 | 6 | 99 | 431 | 354 | 7 | 65 | 52 | 95 |
| Fall 2015 | 5 | 111 | 485 | 380 | 7 | 67 | 45 | 98 |
| Spring 2016 | 11 | 145 | 446 | 441 | 7 | 94 | 50 | 119 |
| Fall 2016 | 5 | 141 | 442 | 467 | 10 | 82 | 47 | 130 |
| Spring 2017 | 3 | 136 | 387 | 450 | 7 | 71 | 49 | 121 |

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| Term | Under 16 | $\mathbf{1 6 - 1 8}$ | $\mathbf{1 9 - 2 4}$ | $\mathbf{2 5 - 2 9}$ | $\mathbf{3 0 - 3 4}$ | $\mathbf{3 5 - 5 4}$ | $\mathbf{5 5 - 6 4}$ | $\mathbf{6 5} \boldsymbol{\&}$ <br> Above |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Spring 2014 | 7 | 42 | 165 | 79 | 73 | 106 | 35 | 3 |
| Fall 2014 |  | 59 | 176 | 87 | 63 | 110 | 29 | 5 |
| Spring 2015 | 2 | 36 | 160 | 83 | 59 | 114 | 31 | 7 |
| Fall 2015 |  | 64 | 197 | 103 | 66 | 96 | 29 | 6 |
| Spring 2016 | 7 | 45 | 177 | 102 | 74 | 94 | 29 | 5 |
| Fall 2016 | 4 | 84 | 193 | 113 | 68 | 100 | 17 | 7 |
| Spring 2017 | 5 | 40 | 166 | 102 | 76 | 106 | 20 | 7 |


|  | Enrollment Trends: Age |  |  |  |  | MATH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 250 |  |  |  |  |  |  |  |
| 200 150 |  |  |  |  | - | - | $\square$ |
| 100 50 |  | 8- | - | $\bigcirc$ | 8 | $\underline{5}$ | $\longrightarrow$ |
| 0 |  |  |  |  |  |  |  |
| 0 | Spring 2014 | Fall 2014 | Spring 2015 | Fall 2015 | Spring 2016 | Fall 2016 | Spring 2017 |
| $\rightarrow$ Under 16 | 7 |  | 2 |  | 7 | 4 | 5 |
| $\rightarrow$ - 16-18 | 42 | 59 | 36 | 64 | 45 | 84 | 40 |
| $\rightarrow-19-24$ | 165 | 176 | 160 | 197 | 177 | 193 | 166 |
| $\bigcirc-25-29$ | 79 | 87 | 83 | 103 | 102 | 113 | 102 |
| $\rightarrow-30-34$ | 73 | 63 | 59 | 66 | 74 | 68 | 76 |
| $-3554$ | 106 | 110 | 114 | 96 | 94 | 100 | 106 |
| $\rightarrow-55-64$ | 35 | 29 | 31 | 29 | 29 | 17 | 20 |
| $\rightarrow 65$ \& Above |  | 5 | 7 | 6 | 5 | 7 | 7 |


| Special Populations Enrollments By Term |  |  |  |  |  |  |  |  | MATH |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# Enrollments | Low Income |  |  |  |  |  |  |  |  |  |  |  |
| Term | Spring 2014 | Fall | Spring | Fall 2015 | Spring | Fall | Spring |  |  |  |  |  |
| Not Low Income | 154 | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |  |  |  |  |  |  |
| Undetermined | 20 | 33 | 155 | 150 | 25 | 40 | 26 |  |  |  |  |  |
| Low Income | 336 | 321 | 322 | 328 | 915 | 347 | 376 |  |  |  |  |  |


| \# Enrollments | DSPS Status |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term | Spring 2014 | Fall | Spring | Fall $\mathbf{2 0 1 5}$ | Spring | Fall | Spring |
|  |  | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ |  | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| DSPS Students | 72 | 80 | 91 | 89 | 86 | 110 | 89 |
| Non DSPS Students | 438 | 449 | 401 | 472 | 447 | 476 | 433 |


| \# Enrollments | Foster Youth Status |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term | Spring 2014 | Fall | Spring | Fall $\mathbf{2 0 1 5}$ | Spring | Fall | Spring |
|  |  | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ |  |  | 2016 | $\mathbf{2 0 1 6}$ |
| 2017 |  |  |  |  |  |  |  |
| Not Foster Youth | 484 | 499 | 471 | 545 | 518 | 577 | 515 |
| Foster Youth | 26 | 30 | 21 | 16 | 15 | 9 | 7 |


| \# Enrollments | Veteran Students |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term | Spring $\mathbf{2 0 1 4}$ | Fall | Spring | Fall $\mathbf{2 0 1 5}$ | Spring | Fall | Spring |
|  |  | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ |  | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| Non Veterans | 489 | 505 | 465 | 531 | 502 | 559 | 494 |
| Veterans | 21 | 24 | 27 | 30 | 31 | 27 | 28 |

1. What changes have occurred in enrollment since 2015-2016 program review?

## Ethnicity

African-American enrollment has dropped by $11 \%$, while Latino/Hispanic enrollment has increases by $12 \%$ and Asian enrollments have seen slight increases over the past year. Other ethnic groups have remained relatively constant.

Gender
Female enrollment is $63 \%$ of total enrollment.

Age Group
The 19-24 age group has higher enrollment than other age group.
Spring 2017 Math classes enrollment dropped significantly.

## Course Sections and Productivity:

| Course | Spring 2014 |  | Fall 2014 |  | Spring 2015 |  | Fall 2015 |  | Spring 2016 |  | Fall 2016 |  | Spring 2017 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# Sections | Prod. | \# Sections | Prod. | \# Sections | Prod. | \# Sections | Prod. | \# Sections | Prod. | \# Sections | Prod. | \# Sections |
| 1 PRE-CALCULUS | 1 | 22.00 | 1 | 24.00 | 1 | 27.00 | 1 | 28.00 | 1 | 33.00 | 2 | 23.46 | 1 |
| 113 WORKSHOP/STATISTICS |  |  |  |  |  |  | 1 | 10.94 | 1 | 22.19 | 1 | 20.79 | 1 |
| 13 INTRO TO STATISTICS | 4 | 20.62 | 4 | 22.50 | 4 | 25.37 | 4 | 24.75 | 4 | 30.37 | 5 | 26.34 | 5 |
| 201 ELEMENTARY ALGEBRA | 5 | 24.00 | 6 | 22.42 | 5 | 20.90 | 6 | 24.09 | 5 | 23.40 | 6 | 24.17 | 7 |
| 203 INTERMEDIATE ALGEBRA | 5 | 20.50 | 5 | 21.10 | 5 | 20.40 | 5 | 19.90 | 5 | 26.00 | 5 | 21.50 | 6 |
| 250 ARITHMETIC | 6 | 16.67 | 5 | 20.10 | 5 | 19.10 | 6 | 17.67 | 4 | 18.65 | 4 | 20.38 | 4 |
| 253 PRE-ALGEBRA | 5 | 22.60 | 4 | 21.50 | 5 | 20.80 | 4 | 19.13 | 4 | 24.25 | 4 | 23.75 | 4 |
| 271 WORKSHOP/PRE-ALGEBRA | 1 | 11.99 | 1 | 14.99 | 1 | 10.08 |  |  | 1 | 10.99 | 1 | 5.50 | 1 |
| 3A CALCULUS I | 1 | 10.50 | 1 | 13.00 | 1 | 10.00 | 1 | 15.50 | 1 | 7.50 |  |  | 1 |
| 3B CALCULUS II | 1 | 15.00 | 1 | 14.00 |  |  | 1 | 7.50 | 1 | 18.50 | 1 | 22.00 | 1 |
| 3C CALCULUS III |  |  |  |  |  |  |  |  |  |  | 1 | 10.00 |  |
| 3 L LINEAR ALGEBRA |  |  |  |  |  |  |  |  | 1 | 9.50 |  |  |  |
| 50 TRIGONOMETRY |  |  |  |  |  |  | 1 | 12.50 |  |  |  |  |  |
| Total Sections and Productivity by Subject and Term | 29 | 20.25 | 28 | 20.93 | 27 | 20.80 | 30 | 20.50 | 28 | 23.35 | 30 | 22.63 | 31 |

Please comment on changes that have occurred in productivity since the 2015-2016 program review. (e.g. increase, decrease or no change)
Productivity from 2015-2016 department-wide was (find production numbers for spring 2016) extremely high at 23.35. Productivity has remained constant over the year. This may be in part due to the fact that many math courses have enrollments of as many as $50-65$ students. We are working closely with Dean Holloway to expand the number of sections and cap enrollment at 40 to ensure that students have improved access to their instructor. The District wide Math discipline faculty passed a motion on September 15,2017 to recommend all math courses class size maximum as 40 students. This approach will allow instructors to spend more time with individual students and lead to increase students' success.

## Student Success:

| Row Labels | Total Retention <br> \% |  |
| :--- | :--- | :--- |
| Spring 2014 |  | $63 \%$ |
| Fall 2014 |  | $66 \%$ |
| Spring 2015 |  | $66 \%$ |
| Fall 2015 | $68 \%$ |  |
| Spring 2016 |  | $70 \%$ |
| Fall 2016 |  | $69 \%$ |
| Spring 2017 |  | $71 \%$ |
| Grand Total |  | $\mathbf{6 8 \%}$ |
| Subject |  |  |
|  |  | $49 \%$ |
| Row Labels Success \% |  | $53 \%$ |
| Spring 2014 |  | $51 \%$ |
| Fall 2014 |  | $53 \%$ |
| Spring 2015 |  | $55 \%$ |
| Fall 2015 |  | $55 \%$ |
| Spring 2016 |  | $59 \%$ |
| Fall 2016 |  | $54 \%$ |
| Spring 2017 |  |  |
| Grand Total |  |  |


| Retention \% |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course Description | Spring 2014 | Fall 2014 | Spring 2015 | Fall 2015 | Spring 2016 | Fall 2016 | Spring 2017 |  |
| ARITHMETIC | 65\% | 57\% | 66\% | 64\% | 73\% | 70\% | 59\% |  |
| CALCULUS I | 62\% | 92\% | 85\% | 87\% | 93\% |  | 88\% |  |
| CALCULUS II | 90\% | 75\% |  | 93\% | 70\% | 82\% | 79\% |  |
| g e |  |  |  |  |  |  |  | 9/1/2017 |


| CALCULUS III |  |  |  |  | $95 \%$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ELEMENTARY ALGEBRA | $56 \%$ | $58 \%$ | $47 \%$ | $62 \%$ | $51 \%$ | $59 \%$ | $62 \%$ |
| INTERMEDIATE ALGEBRA | $50 \%$ | $64 \%$ | $63 \%$ | $62 \%$ | $67 \%$ | $62 \%$ | $73 \%$ |
| INTRO TO STATISTICS | $79 \%$ | $69 \%$ | $67 \%$ | $77 \%$ | $74 \%$ | $75 \%$ | $72 \%$ |
| LINEAR ALGEBRA |  |  |  |  | $58 \%$ |  |  |
| PRE-ALGEBRA | $62 \%$ | $77 \%$ | $78 \%$ | $71 \%$ | $78 \%$ | $78 \%$ | $77 \%$ |
| PRE-CALCULUS | $86 \%$ | $73 \%$ | $83 \%$ | $61 \%$ | $83 \%$ | $67 \%$ | $83 \%$ |
| TRIGONOMETRY <br> WORKSHOP/PRE-ALGEBRA <br> WORKSHOP/STATISTICS | $54 \%$ | $93 \%$ | $85 \%$ | $92 \%$ |  |  |  |
| Total Rates by Subject and <br> Term | $\mathbf{6 3 \%}$ | $\mathbf{6 6 \%}$ | $\mathbf{6 6 \%}$ | $\mathbf{6 8 \%}$ | $\mathbf{7 0 \%}$ | $\mathbf{6 9 \%}$ | $\mathbf{7 1 \%}$ |



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| Course Description | Success \% |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Spring 2014 | Fall 2014 | Spring 2015 | Fall 2015 | Spring 2016 | Fall 2016 | Spring 2017 |
| ARITHMETIC | 40\% | 39\% | 38\% | 38\% | 42\% | 45\% | 43\% |
| CALCULUS I | 57\% | 92\% | 80\% | 87\% | 93\% |  | 82\% |
| CALCULUS II | 90\% | 61\% |  | 80\% | 62\% | 82\% | 79\% |
| CALCULUS III |  |  |  |  |  | 95\% |  |
| ELEMENTARY ALGEBRA | 44\% | 40\% | 34\% | 45\% | 35\% | 46\% | 50\% |
| INTERMEDIATE ALGEBRA | 40\% | 52\% | 54\% | 48\% | 52\% | 47\% | 59\% |
| INTRO TO STATISTICS | 73\% | 68\% | 63\% | 75\% | 67\% | 69\% | 62\% |
| LINEAR ALGEBRA |  |  |  |  | 47\% |  |  |
| PRE-ALGEBRA | 45\% | 62\% | 60\% | 50\% | 63\% | 57\% | 63\% |
| PRE-CALCULUS | 68\% | 56\% | 65\% | 45\% | 74\% | 49\% | 71\% |
| TRIGONOMETRY |  |  |  | 76\% |  |  |  |
| WORKSHOP/PRE-ALGEBRA | 54\% | 73\% | 75\% |  | 64\% | 55\% | 64\% |
| WORKSHOP/STATISTICS |  |  |  | 100\% | 92\% | 82\% | 87\% |
| Total Rates by Subject and Term | 49\% | 53\% | 51\% | 53\% | 55\% | 55\% | 59\% |



| Retention and Success by Gender |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term <br> Retention \% |  |  |  |  |  |  |
|  |  | Fall | Spring | Fall | Spring | Fall | Spring |
| Gender | Spring 2014 | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| Female | $64 \%$ | $66 \%$ | $65 \%$ | $69 \%$ | $72 \%$ | $69 \%$ | $73 \%$ |
| Male | $63 \%$ | $66 \%$ | $67 \%$ | $67 \%$ | $67 \%$ | $70 \%$ | $68 \%$ |
| Unknown/Not |  |  |  |  |  |  |  |
| Reported | $57 \%$ | $72 \%$ | $83 \%$ | $71 \%$ | $63 \%$ | $88 \%$ | $57 \%$ |

Retention and Success by Gender

|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Success \% |  |  |  |  |  |  |
| Spring | Fall | Spring | Fall | Spring | Fall | Spring |  |
| Gender | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| Female | $50 \%$ | $53 \%$ | $52 \%$ | $53 \%$ | $57 \%$ | $55 \%$ | $60 \%$ |
| Male | $48 \%$ | $52 \%$ | $51 \%$ | $52 \%$ | $51 \%$ | $55 \%$ | $57 \%$ |
| Unknown/Not Reported | $43 \%$ | $64 \%$ | $67 \%$ | $71 \%$ | $63 \%$ | $\mathbf{7 5 \%}$ | $57 \%$ |

Retention and Success By
Race/Ethnicity

| Race/Ethnicity |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term <br> Retention \% |  |  |  |  |  |  |  |
|  | Fall | Spring | Fall | Spring | Fall | Spring |  |  |
| Race/Ethnicity | Spring 2014 | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |  |
| American Indian | $33 \%$ | $50 \%$ | $67 \%$ | $60 \%$ | $64 \%$ | $60 \%$ | $67 \%$ |  |
| Asian | $65 \%$ | $84 \%$ | $75 \%$ | $86 \%$ | $71 \%$ | $75 \%$ | $69 \%$ |  |
| Black / African |  |  |  |  |  |  |  |  |
| American | $57 \%$ | $61 \%$ | $60 \%$ | $62 \%$ | $66 \%$ | $62 \%$ | $66 \%$ |  |
| Hispanic / Latino | $67 \%$ | $63 \%$ | $70 \%$ | $69 \%$ | $69 \%$ | $71 \%$ | $73 \%$ |  |
| Pacific Islander | $40 \%$ | $67 \%$ | $57 \%$ | $71 \%$ | $86 \%$ | $70 \%$ | $100 \%$ |  |
| Two or More | $62 \%$ | $75 \%$ | $63 \%$ | $67 \%$ | $76 \%$ | $70 \%$ | $72 \%$ |  |
| Unknown / NR | $76 \%$ | $68 \%$ | $65 \%$ | $69 \%$ | $72 \%$ | $66 \%$ | $69 \%$ |  |
| White | $77 \%$ | $76 \%$ | $73 \%$ | $76 \%$ | $80 \%$ | $82 \%$ | $81 \%$ |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |


| Race/Ethnicity | Success \% Spring 2014 | $\begin{gathered} \text { Fall } \\ 2014 \end{gathered}$ | Spring 2015 | $\begin{aligned} & \text { Fall } \\ & 2015 \end{aligned}$ | Spring $2016$ | $\begin{gathered} \text { Fall } \\ 2016 \end{gathered}$ | Spring 2017 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| American Indian | 33\% | 50\% | 67\% | 40\% | 64\% | 60\% | 67\% |  |  |  |  |
| Asian | 53\% | 73\% | 67\% | 75\% | 65\% | 63\% | 66\% |  |  |  |  |
| Black / African American | 41\% | 47\% | 40\% | 44\% | 46\% | 45\% | 50\% |  |  |  |  |
| Hispanic / Latino | 55\% | 48\% | 56\% | 54\% | 55\% | 57\% | 62\% |  |  |  |  |
| Pacific Islander | 20\% | 33\% | 29\% | 29\% | 71\% | 70\% | 86\% |  |  |  |  |
| Two or More | 49\% | 61\% | 52\% | 52\% | 60\% | 55\% | 54\% |  |  |  |  |
| Unknown / NR | 51\% | 59\% | 58\% | 62\% | 64\% | 53\% | 61\% |  |  |  |  |
| White | 68\% | 73\% | 68\% | 68\% | 69\% | 73\% | 74\% |  |  |  |  |
| Retention and Success Rates by Age Group |  |  |  |  |  |  |  |  |  |  |  |
| Term Retention \% |  |  |  |  |  |  |  |  |  |  |  |
| Age Range |  |  |  | $2014$ |  | $\begin{aligned} & \text { Fall } \\ & 2014 \end{aligned}$ | Spring 2015 | $\begin{aligned} & \text { Fall } \\ & 2015 \end{aligned}$ | Spring $2016$ | $\begin{gathered} \text { Fall } \\ 2016 \end{gathered}$ | Spring $2017$ |
| Under 16 |  |  |  | \% |  |  | 100\% |  | 88\% | 100\% | 100\% |
| 16-18 |  |  |  | \% |  | 69\% | 67\% | 71\% | 78\% | 72\% | 72\% |
| 19-24 |  |  |  | \% |  | 63\% | 67\% | 66\% | 70\% | 68\% | 69\% |
| 25-29 |  |  |  | \% |  | 69\% | 68\% | 65\% | 72\% | 71\% | 76\% |
| 30-34 |  |  |  | \% |  | 74\% | 68\% | 71\% | 72\% | 72\% | 74\% |
| 35-54 |  |  |  | \% |  | 67\% | 65\% | 74\% | 63\% | 70\% | 73\% |
| 55-64 |  |  |  | \% |  | 57\% | 36\% | 73\% | 67\% | 56\% | 73\% |
| 65 \& Above |  |  |  | \% |  | 67\% | 43\% | 67\% | 67\% | 57\% | 71\% |


|  | Success <br> \% |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Spring | Fall | Spring | Fall | Spring | Fall | Spring |
| Age Range | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| Under 16 | $50 \%$ |  | $100 \%$ |  | $75 \%$ | $100 \%$ | $80 \%$ |
| $16-18$ | $57 \%$ | $50 \%$ | $52 \%$ | $53 \%$ | $62 \%$ | $55 \%$ | $56 \%$ |
| $19-24$ | $47 \%$ | $47 \%$ | $50 \%$ | $49 \%$ | $54 \%$ | $53 \%$ | $56 \%$ |
| $25-29$ | $48 \%$ | $61 \%$ | $57 \%$ | $55 \%$ | $59 \%$ | $62 \%$ | $66 \%$ |
| $30-34$ | $52 \%$ | $67 \%$ | $57 \%$ | $56 \%$ | $60 \%$ | $56 \%$ | $59 \%$ |
| $35-54$ | $51 \%$ | $57 \%$ | $51 \%$ | $64 \%$ | $49 \%$ | $55 \%$ | $66 \%$ |
| $55-64$ | $56 \%$ | $50 \%$ | $30 \%$ | $63 \%$ | $48 \%$ | $50 \%$ | $50 \%$ |
| $65 \&$ Above | $100 \%$ | $67 \%$ | $29 \%$ | $33 \%$ | $50 \%$ | $57 \%$ | $71 \%$ |

Retention and Success Rates by DSPS Status

|  | Term Retention \% |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DSPS STATUS | Spring 2014 | $\begin{aligned} & \text { Fall } \\ & 2014 \end{aligned}$ | Spring 2015 | $\begin{aligned} & \text { Fall } \\ & 2015 \end{aligned}$ | Spring 2016 | $\begin{gathered} \text { Fall } \\ 2016 \end{gathered}$ | Spring 2017 |
| DSPS Students | 58\% | 61\% | 61\% | 70\% | 61\% | 66\% | 64\% |
| Non DSPS Students | 64\% | 67\% | 67\% | 68\% | 71\% | 70\% | 72\% |


|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Success \% |  |  |  |  |  |  |
|  | Spring | Fall | Spring | Fall | Spring | Fall | Spring |
| DSPS STATUS | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| DSPS Students | $37 \%$ | $43 \%$ | $42 \%$ | $57 \%$ | $50 \%$ | $48 \%$ | $50 \%$ |
| Non DSPS Students | $50 \%$ | $54 \%$ | $53 \%$ | $52 \%$ | $56 \%$ | $56 \%$ | $60 \%$ |

Retention and Success Rates by Low

| Income Status |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term Retention \% |  |  |  |  |  |  |
| Low Income students | Spring 2014 | $\begin{aligned} & \text { Fall } \\ & 2014 \end{aligned}$ | Spring 2015 | $\begin{gathered} \text { Fall } \\ 2015 \end{gathered}$ | Spring 2016 | $\begin{gathered} \text { Fall } \\ 2016 \end{gathered}$ | Spring $2017$ |
| Low Income Students | 63\% | 64\% | 65\% | 65\% | 70\% | 71\% | 69\% |
| Not Low income | 63\% | 72\% | 69\% | 81\% | 67\% | 85\% | 85\% |
| Undetermined | 70\% | 65\% | 71\% | 66\% | 70\% | 68\% | 71\% |


|  | Success \% |  |  |  |  |  | Fall |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Spring | Fall | Spring | Fpring | Fall | Spring |  |
| Low Income students | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| Low Income Students | $48 \%$ | $50 \%$ | $49 \%$ | $50 \%$ | $49 \%$ | $53 \%$ | $60 \%$ |
| Not Low income | $57 \%$ | $64 \%$ | $60 \%$ | $66 \%$ | $48 \%$ | $71 \%$ | $74 \%$ |
| Undetermined | $30 \%$ | $46 \%$ | $53 \%$ | $49 \%$ | $56 \%$ | $56 \%$ | $59 \%$ |

Retention and Success Rates by Foster


|  | Success \% |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Spring | Fall | Spring | Fall | Spring | Fall | Spring |
| Foster Youth Status | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| Not Foster Youth | $50 \%$ | $53 \%$ | $52 \%$ | $53 \%$ | $55 \%$ | $55 \%$ | $60 \%$ |
| Foster Youth Status |  |  |  |  |  |  |  |

Retention and Success Rates by Veteran

| Status |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term |  |  |  |  |  |  |  |
| Retention \% |  |  |  |  |  |  |  |
| Veteran Sataus | 2014 | $\begin{gathered} \text { Fall } \\ 2014 \end{gathered}$ | Spring 2015 | $\begin{gathered} \text { Fall } \\ 2015 \end{gathered}$ | Spring 2016 | $\begin{gathered} \text { Fall } \\ 2016 \end{gathered}$ | Spring $2017$ |
| Not Veterans | 63\% | 66\% | 66\% | 68\% | 70\% | 69\% | 71\% |
| Veterans | 67\% | 71\% | 63\% | 60\% | 64\% | 78\% | 79\% |


|  | Success \% |  |  |  |  | Fall | Spring |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Spring | Fall | Spring | Fall | Spring |  |  |  |
| Veteran Sataus | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ |
| Not Veterans | $49 \%$ | $53 \%$ | $52 \%$ | $53 \%$ | $55 \%$ | $55 \%$ | $59 \%$ |
| Veterans | $57 \%$ | $54 \%$ | $48 \%$ | $57 \%$ | $55 \%$ | $67 \%$ | $68 \%$ |

1. Describe the course retention and successful course completion rates and any changes since the 2015-2016 program review

Course completion rates and course success rates in Math have increased slightly. This is a good thing. Is there anything that can be attributed to this increase in success and retention rate? The math department should highlight the fact that it is moving the needle somewhat.
2. Describe any achievement gaps present in your disaggregated enrollment, retention and successful course completion data. (Your data is disaggregated by Gender, Race/Ethnicity, Age, and student populations: DSPS, Low Income, Foster Youth and Veterans) Low income students retention and success rates are improving, but, still lower than other students. Foster youth retention and success rates dropped significantly. Veterans retention and success rates increased significantly after hiring the Veterans counselor.

## Student Success in Distance Education/Hybrid classes versus face-to-face classes:

Not applicable

1. Describe any difference in the Retention and Success of face-to-face and distance education courses.

The math department currently does not offer hybrid or online courses. Can there be a mention that there is a plan to initiate a DE addendum to teach a math course in the near future. (to provide access to more students)

Other program specific data. Other data could include: departmental research via survey or special projects that significantly supports the goals or future plans for the program. Can something be mentioned about the pathways projects in development / maybe something anecdotal regarding how students like it and will demand more sections of the pathways courses soon.

## IV. Aligning Program Goals, Activities and Planning

Purpose: In this section, you will align your program, department or unit goals with the Educational Master Plan goals. You will also be asked to comment on how your department, unit or program is helping the College to achieve the targets set by the Equity, SSSP and Basic Skills Plans.

1. Educational Master Plan Alignment: Please use the following matrix to demonstrate how your program goals align with the 2015-2020 Educational Master Plan Goals.

## 2015-2020 EMP Goals

## Foundations:

1. Assess students' strengths and needs thoroughly to accelerate completion of certificates, degrees and transfer readiness.
2. Support and develop programs, curriculum and services that increase completion of courses, certificates, degrees and transfer.
3. Establish an organizational structure that promotes coordination, innovation, and accountability, and which embeds basic skills development across the campus.

## Career Technical Education

1. Develop opportunities for CTE students to engage in campus and community experiences that enhance learning and student success (program-level clubs/enterprises, activities that develop soft skills, etc.) by contextualizing and proactively engaging students.
2. Create a Merritt-wide infrastructure that streamlines and develops employer partnerships, including offering High quality internships, serving on advisory boards, and engaging in curriculum development.
3. Strengthen Merritt College's "on ramps" to our CTE pathways by enhancing distance education, dual enrollment, adult education, contract education, etc., and provide differentiated supports that ensure student success for targeted population.
4. Create proactive strategies to engage faculty, students, and employers to support program success and sustainability that increase student-level academic and career outcomes.

## Transfer:

1. Establish fully functioning transfer center.
2. Acquire more and better data (Higher granularity) on transfer rates. Collect transfer data to include UC, State, and Private institutions.
3. Augment and strengthen specific partnerships with academic departments in CSUs, UCs, and privates to develop transfer pipelines.
4. Augment and strengthen support services for transfer students campus-wide.
5. Augment and strengthen support for transfer students within academic programs.

Directions: 1) input your program and department goals. 2) Identify which area of the Ed Master Plan this Goal aligns to - Foundations, Transfer and/or CTE. Describe the activities your department or program will complete to meet the goal. 5) What standard or goal do you think the activities will help the college achieve as a measurable outcome (Completion rate, degree/cert completion, transfer, remedial rates). Place and $X$ in the standard(s) and/or goal(s) your program activity will impact.

| Program/ department or unit Goal |  |  |  | How does this goal or the program activities align with the Educational <br> Master Plan Strategic Directions and/or Goals? | Measurable Outcomes: Institution Set Standards and IE Goals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Successful <br> Course <br> Completion <br> Rate | Retention Rate (F to F Persistence) | Degree or Cert. Completion | Transfer | $\begin{gathered} \hline \text { Remedial } \\ \hline \text { Rate } \\ \text { Math } \\ \text { (Basic } \\ \text { Skill } \\ \text { Success) } \\ \hline \end{gathered}$ | Remedial Rate English (Basic Skills Success) |
| To increase retention and success rates in Math courses, particularly basic skills courses <br> If goals have been added above, they should be mapped to IE goals | $x$ | $\times$ | $x$ | The Objective of these activities is to provide student with more options and increase enrollment. Offering courses at the high school also strengthens partnerships with the high schools and can build a pipeline from the HS to Merritt to improve HS to college transition and student success. | $X$ | $x$ |  |  | X |  |
| Offer one more section of Math Jam in winter/summer break | $\times$ |  |  | More students who take math jam will increase their ability to test higher on the placement exam, and lessen the number of levels before transfer |  |  |  |  | x |  |
| Create accelerated algebra sequence for STEM/non STEM majors |  | $\times$ |  | Decreasing the number of levels before transfer has been shown to increase the student success metrics | x | X | x |  |  |  |
| Create accelerated pre-algebra sequence | $\times$ | $\times$ | $\times$ | Decreasing the number of levels before transfer has been shown to increase the student success metrics. | x | X |  |  | X |  |

2. Student Equity, Student Success and Support Program (SSSP), and Basic Skills Target Groups: These plans analyzed student success outcomes and disproportionately impacted student populations. The chart below outlines the results of this analysis, and is a summary of the
student populations and focused outcomes that the College indicated it would like to increase as a result of the Student Equity Plan (E), SSSP Plan (S), and Basic Skills Plan (B).
a. As a program, department or unit, review your data and describe any activities you are doing to address student equity gaps and special populations in the table below. Describe the target or focused student population, the problem/observation, the activity/intervention, and the intended outcome. How does your activity align with the College's Equity, SSSP and Basic Skills Goals (list the target group and indicator in the last box below)? In your description, please note if the activity or intervention was funded by one of these grants in the past academic year (15-16).

## 2015-16 Student Equity Plan, Student Success and Support Program Plan (SSSP), and Basic Skills Goal Summary



*S = SSSP, E=EQUITY, B=BASIC SKILLS

Directions: 1) Describe a challenge, achievement gap or observation you made in your program data. 2) Describe an activity or intervention your program does to address the data. 3) Note which student populations this activity or intervention targets. 4) describe the intended measurable outcome of the activity. Think about which indicator, from the summary chart below, this activity will help to impact. 5) Note which Plan and Goal this activity aligns to (SSSP, Equity, or Basic Skills)

## I think the 'activity/intervention' fields should be placed in the 'Problem, achievement gap, or observation' area. I changed the first 2



| $\begin{array}{l}\text { Achievement gap of } \\ \text { African-American students }\end{array}$ | $\begin{array}{l}\text { African-American students } \\ \text { (especially males) have a } \\ \text { low success rate in math } \\ \text { courses }\end{array}$ | Sankofa Program | $\begin{array}{l}\text { SSSP and Equity } \\ \text { Plan - Access for } \\ \text { support in basic skills/transfer level courses. } \\ \text { (embedded tutoring, early alert system, } \\ \text { counseling, etc) }\end{array}$ |
| :--- | :--- | :--- | :--- | :--- |
| African Americans |  |  |  |$\}$

b. Are additional resources required to facilitate the activities or interventions related to this area? If yes, make sure to discuss with your Dean.
 In 2016. With this grant, from 2016 to 2019, the department should be able to put initiatives in place which may begin to address these issues. Math discipline needs to hire at least two more Math instructors and Math Lab Technician.
3.Student Equity, Student Success and Support Program (SSSP), and Basic Skills Funding: In addition to identifying focused student populations and targets for improving student outcomes, these plans outlined activities the College would engage in to improve the indicators above.

Did your program receive funding from any of the sources below in 2016-2017? What was the outcome of this funding?

Please report on the outcomes from 2016-2017 funding.

| Please report on the outcomes from 2016-2017 funding. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Plan | What was funded? | Was this part of a larger activity or initiative? | What need did this address? | What measurable outcome resulted in this funding? |
| $\frac{\text { Student Equity }}{\text { Plan }}$ |  |  | The math/physical science department supports a STEM club on campus to increase the level of interest around math courses and exploring using math/science in a career. <br> The department intends to visit at least one local high school to inform students about our programs at Merritt and encourage students to enroll in our upper level math courses (perhaps this could be done with CIS ) <br> Can there be a BtG pilot of early college math advising for Merritt Math courses at some local OUSD high schools/ Charter schools? |  |
| SSSP Plan |  |  | Orientation. <br> Assessment for Placement. Pre-requisite challenges. Multiple measures placement will take place during fall 2016. <br> Embedded tutors (possibly embedded counselors for the BSSOT grant). <br> Follow up with at risk students. |  |

$\left.\begin{array}{|l|l|l|l|l|}\hline & & & \begin{array}{l}\text { Early alert system is in effect. } \\ \text { Several instructors have been } \\ \text { working with the counselors in the } \\ \text { early alert system. }\end{array} \\ \hline \text { Basic Skills Plan } & \begin{array}{c}\text { Basic Skills and Student } \\ \text { Outcomes } \\ \text { Transformation grant }\end{array} & \begin{array}{l}\text { The math department intends to develop } \\ \text { courses which will shorten the number of levels } \\ \text { below transfer. Studies have shown that } \\ \text { increasing the level of rigor with substantial } \\ \text { support to the students will increase student } \\ \text { success rates for some students. Through the } \\ \text { grant, the math department will also explore } \\ \text { how technology can be used to help students } \\ \text { success. }\end{array} & \begin{array}{l}\text { Expand the use of multiple measures } \\ \text { to place students. } \\ \text { Expand the Math Jam test } \\ \text { preparation program. }\end{array} \\ \text { Begin institutionalization process of } \\ \text { math jam as noncredit offering } \\ \text { Replace multi-level remedial } \\ \text { sequences with accelerated courses. } \\ \text { Embed student support services } \\ \text { (tutoring and counseling) in the } \\ \text { accelerated basic skills courses. }\end{array}\right]$

## V. Curriculum and Assessment Status

Purpose: In this section, you will plan for curriculum review and discuss assessment plans and findings. If your Program, Department or Unit does not have a curriculum component, please put N/A. You should reference the CurricUNET META, and Taskstream.

## Curriculum Review Plan

In preparation for the implementation of structured curriculum review in the 2018-2019 academic year, departments and programs are being asked this year to submit curriculum review plans, indicating when all courses and programs shall be reviewed. One-third of non-CTE curriculum should be reviewed each year, resulting in all non-CTE courses and programs being reviewed within the three-year program review cycle. Half of CTE curriculum should be reviewed each year, resulting in all CTE courses and programs being reviewed every two years in conjunction with the program review/annual program update cycle.

## Directions

All department chairs, program directors, and full-time faculty members should have access to CurricUNET META to view the active curriculum inventory. If you don't have access, contact LaShaune Fitch, Curriculum Specialist, at lfitch@peralta.edu.

- List all active courses, certificates, and degrees.
- Indicate which year each course, certificate, or degree shall be reviewed (including deactivations and reactivations).
- Add more rows to each table as needed.

| Course Number | Course Name | 2018-2019 | 2019-2020 | 2020-2021 |
| :---: | :---: | :---: | :---: | :---: |
| Math 250 | Arithmetic | $x$ |  |  |
| Math 253 | Prealgebra | $x$ |  |  |
| Math 201 | Elementary Algebra | X |  |  |
| Math 203 | Intermediate Algebra | x |  |  |
| Math 13 | Statistics |  |  | x |
| Math 1 | PreCalculus | x |  |  |
| Math 2 | Precalculus with Analytic Geometry |  | x |  |
| Math 3A | Calculus I |  |  | X |
| Math 3B | Calculus II |  |  | x |
| Math 3C | Calculus III |  |  | X |
| Math 3E | Linear Algebra |  |  | X |
| 34 \| Page |  |  |  | /1/2017 |


| Math 3F | Differential Equations |  |  | x |
| :---: | :---: | :---: | :---: | :---: |
| Math 16A | Calculus for Business and Life/Social Sciences |  |  | x |
| Math 16B | Calculus for Business and Life/Social Sciences |  | x |  |
| Math 50 | Trigonometry |  | x |  |
| Math 15 | Math for liberal Arts Students |  | x |  |
| Math 202 | Geometry | x |  |  |
| Math 270 | Math workshop for Arithmetic |  | deactivate |  |
| Math 271 | Math workshop for Pre-Algebra |  | deactivate |  |
| Math 272 | Math workshop for Elementary Algebra |  | deactivate |  |
| Math 273 | Math workshop for Intermediate Algebra |  | deactivate |  |
| Math 113 | Math workshop for Statistics |  | x |  |


| Program Type | Program Name | 2018-2019 | 2019-2020 | 2020-2021 |
| :---: | :---: | :---: | :---: | :---: |
| Associate of Science in Math | Math |  | Deactivate? <br> Sounds good! |  |
| Associate in Science in Math | AS-T in Math |  |  | x |

## Student Learning Outcomes Assessment

Use the following table to document the results of the student learning outcomes assessment completed in 2016-2017. Please discuss which courses and PLO's were assessed, the results, changes that were made or plan to be made.

| Learning Outcomes Assessed in 2016-2017 |  | Results | Changes Made (or to be made) | Status <br> (Completed <br> or planned <br> date) |
| :--- | :--- | :---: | :---: | :---: |
| Course/Program | Learning Outcome Assessed |  | SLOs have been revised. | completed |
| Math 202/Math <br> 3E | All outcomes assessed |  |  | completed |
| Math 250, <br> Math 253, | All outcomes assessed |  |  |  |


| Math201, |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Math 203, |  |  |  |  |
| Math 13, |  |  |  |  |
| Math 1, |  |  |  |  |
| Math 3A, |  |  |  |  |
| Math 3B, |  |  |  |  |
| Math 3C, |  |  |  |  |
| Math 113 |  |  |  | completed |
| AS-T in math | All outcomes assessed |  |  |  |

1. What meaningful dialogue takes place in both shaping and assessing course and program level outcomes? Where can one find the evidence of the dialogue?

We discussed at the Department meetings. See the Department meetings minutes for the evidence of the dialogue.
2. Attach the completed Fall Schedule Assessment Planning Template (due to CDCPD mid-September).

## SLOs Assessments (all SLOs):

Math 250: David Strohl
Math 201: Dan Lawson
Math 1: Tae-Soon Park
Math 3B: Michelle Lee
Math 13: Rebecca Uhlman

## PLOs Assessments:

Math 13: Rebecca Uhlman
Math 3B: Michelle Lee

Math 253: David Strohl
Math 203: Tae-Soon Park
Math 240: Dan Lawson
Math 3C: Trung Nguyen
Math 113: Suman Shah

Math 1: Tae-Soon Park
Math 3C: Trung Nguyen

ILO Assessment: Critical Thinking Skills ILO for Fall 2017

## VI. Additional Questions for CTE, Counseling, Library and Student Services/Admin Units

Purpose: In this section, certain programs or departments will answer questions specific to the program. Leave the section blank if your program, department or unit is not CTE, Counseling, Library or Student Services/Administration.

## For CTE:

1. Please describe any recommendations resulting from advisory committee meetings that have occurred since your last program review.
2. Did your program work with a Deputy Sector Navigator and if so, how did this lead to program changes or improvements?
3. Is your discipline/department/program currently participating in any grants specific to the program? Please discuss your progress in meeting the stated goals in the grant.

## For Counseling:

1. What has the counseling department done to improve course completion and retention rates? What is planned for the future?
2. What has the counseling department done to improve SSSP counseling services? Please discuss your progress in improving SSSP counseling services.

## For Library Services:

1. Please describe any changes in the library services, collections or instructional programs since the last program review or APU and fill in the information below:

|  | This Academic Year | Previous Academic Year (s) | Explanation of Changes |
| :--- | :--- | :--- | :--- |
| Library Open Hours Per Week |  |  |  |
| Library Visits (gate count) |  |  |  |
| Other Library Usage |  |  |  |
| Total Library Materials Expenditures |  |  |  |
| Total Print Book Collection (Titles) |  |  |  |
| Total E-book Collection (Titles) |  |  |  |
| Total Database Subscriptions |  |  |  |
| Total Media Collection (Titles) |  |  |  |
| Total Print Periodical Subscriptions |  |  |  |
| General Circulation Transactions |  |  |  |
| Reserve Circulation Transactions |  |  |  |
| In-house circulation Transactions (optional) |  |  |  |
| Media Circulation Transactions (optional) |  |  |  |
| E-book Circulation Transactions Describe <br> (optional) |  |  |  |
| Other circulations Transactions - Describe - <br> (optional) |  |  |  |
| Total circulation Transactions |  |  |  |

## For Student Services and/or Administrative Units:

1. Briefly describe the results of any student satisfaction surveys or college surveys that included evaluation and/or input about the effectiveness of the services provided by your unit. How has this information informed unit planning and goal setting?
2. Briefly describe any changes that have impacted the work of your unit.

## VII. New Resource Needs Not Covered by Current Budget

Purpose: In this section, programs will documents new and repeat resource requests not covered by current budget, and document the support of the request with data or evidence.

Human Resources: If you are requesting new or additional positions, in any job classification, please explain how new positions will contribute to increased student success.
$\left.\begin{array}{|l|l|l|l|l|l|}\hline \begin{array}{l}\text { Human Resource } \\ \text { Request(s) }\end{array} & \begin{array}{l}\text { Dollar } \\ \text { Amount }\end{array} & \begin{array}{l}\text { Already } \\ \text { Request } \\ \text { ed in } \\ \text { Recent } \\ \text { Program } \\ \text { Review } \\ \text { or APU? } \\ \text { (yes/no) }\end{array} & \begin{array}{c}\text { What Program Goal does this request align } \\ \text { to? } \\ \text { (cut and paste from section II) }\end{array} & \begin{array}{c}\text { What data or evidence supports this } \\ \text { request? (If discussed in a section above, } \\ \text { please give a brief statement and page } \\ \text { reference.) }\end{array} \\ \text { contribute to student } \\ \text { success? (1-3 sentences) }\end{array}\right\}$
*New faculty and staff requests must be listed here.

Technology and Equipment: How will the new technology or equipment contribute to student success?

| Technology and <br> Equipment | Dollar <br> Amount | Already <br> Request <br> ed in <br> Recent <br> Program <br> Review <br> or APU? <br> (yes/no) | What Program Goal does this request align <br> to? <br> (cut and paste from section II) | What data or evidence supports this <br> request? (If discussed in a section above, <br> please give a brief statement and page <br> reference.) | How will this resource <br> contribute to student <br> success? (1-3 sentences) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 6 iPads for instructional <br> use <br> 40 graphing calculators | $\$ 4,800$ | Yes | Offer at least 1 technology based <br> training to math faculty |  |  |
| Apple TV | $\$ 4,400$ | Yes <br> Y laptop computers for <br> instructors | $\$ 16,000$ | No |  |
| 1 Portable projector | $\$ 1,000$ | no |  | Modern math instruction <br> usually involves some <br> form of technology aided <br> instruction. The iPad/laptop computers are <br> leading devices used by <br> instructors. |  |

Facilities: Has facilities maintenance and repair affected your program in the past year? How will this facilities request contribute to student success?

| Facilities | Dollar Amount | Already Request ed in Recent Program Review or APU? (yes/no) | What Program Goal does this request align to? (cut and paste from section II) | What data or evidence supports this request? (If discussed in a section above, please give a brief statement and page reference.) | How will this resource contribute to student success? (1-3 sentences) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Dedicated math computer lab <br> Adequate office space. | \$100,000 | yes | Develop curriculum for math courses which allows the student to complete a transfer level math course in 3 semesters after college entry | New Math courses required dedicated math computer lab. <br> Many math classes are taught in rooms | Improve students retention and success rates. |


|  |  |  | (identify a cohort of students who are <br> not in the 3 course pathway and <br> compare to success rates in the <br> traditional pathway) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| that also serve as labs and contain <br> equipment that is not used by the <br> math department. <br> At times some of these materials <br> must be moved or reoriented in order <br> to teach the math class effectively. <br> Often, classrooms do not have the <br> necessary seating to accommodate the <br> class. A lockable storage drawer in <br> each Math classroom is also requested. |  |  |  |

Professional Development or Other Requests: How will the professional develop activity contribute to student success? What professional development opportunities and contributions make to the college in the future?

| Professional Development | Dollar Amount | Already <br> Request ed in Recent Program Review or APU? (yes/no) | What Program Goal does this request align to? (cut and paste from section II) | What data or evidence supports this request? (If discussed in a section above, please give a brief statement and page reference.) | How will this resource contribute to student success? ( $\mathbf{1 - 3}$ sentences) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Training in use of smart tablet integration <br> Training to develop and integrate online/hybrid courses to enhance math course <br> Flipped Classroom Training <br> Supplemental Instruction Training | \$10,000 | yes | Offer at least 1 technology based training to math faculty | Using the tablet in teaching will allow students to access the material in additional ways (online via the cloud, video lecture etc.). <br> Online/Hybrid courses will attract additional students. Learning to teach in this format will keep us competitive with the experiences students get at other schools. <br> Online courses are becoming increasingly common in the college system. BCC, Laney and COA offer online math courses. <br> If the department is able to develop a new math computer lab, it will become even more relevant to teach in an online/hybrid format | Improve students retention and success rates. |

$\square$

## Signatures

Discipline, Department or Program Chair

| Print name |
| :--- |
| Dean |

Signature
Date

Print name
Signature
Date

