

Proposed Amendment to the FY22 Proposed Budget

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|--------------------|------------------------------|
| Amendment # | 01 |
| Sponsor: | Director Leonard |
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| Date: | May 11, 2021 |

Intent (required):

Numerous sources, including the National Science Board, the Mathematics Association of America, and Education Week have reported dismal figures relative to the pass rate for college level math courses. Nationally, colleges and universities lose 35-45% of candidates in the STEM fields because of the high rate of failure. The intent of this amendment is to better prepare students for college-level math courses by including a more interwoven combination of advanced math classes beyond a calculus focus. Offerings should include Trigonometry, Analytical Geometry, and a strong emphasis on Statistics. These offerings are to be made through telepresence courses and in partnerships with local colleges and universities so students can earn dual credit.

Funding Source (required):

Identify specific account numbers and nature of expenditure (budget line item) to be increased and budget line items to be decreased to fund the amendment (required; add rows as needed)

| Page # | Budget Line Items to be Changed: Account Number and Nature of Expenditure (To/From; Increased and Decreased to balance) | FTE Increase | Amount Increase | FTE Decrease | Amount Decrease |
|-------------------------|--|-----------------|--------------------|-----------------|--------------------|
| 6 – ESSER Supplement | Dual enrollment classes Adjustment in curriculum only | 0.00 | 0 | 0.00 | 0 |
| | Total | 0.00 | 0 | 0.00 | 0 |

Fund (please refer to the table of contents for the Line Item section of the Proposed Budget book, attached, to find the Fund that is aligned with the page number referenced above):

- School Operations Fund
- Extension Fund
- Construction Fund

Required Vote:

- Simple Majority**
- Super Majority (2/3)**

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Administration Response:

In our regular programming we offer the following courses beyond algebra, geometry, and trigonometry:

- AP Calculus
- AP Statistics
- IB Mathematics Studies
- IB DP Math applications
- Precalculus
- Calculus

Some of the courses listed above are provided to schools using telepresence.

Over the past few years, Milwaukee Public Schools has increased the number of students participating in dual enrollment math courses through Milwaukee Area Technical College (MATC) and the University of Wisconsin-Milwaukee (UWM). Students have had the opportunity to take and earn transferable college credit for “gateway” math courses (equivalent to UWM 103 and MATC 200/UWM 105). Dual enrollment courses have had a very positive success rate of students earning college credits.

The UWM Math 103 or Contemporary Applications of Mathematics has been offered in a co-teaching model. The UWM instructor comes to the high school and co-teaches with an MPS teacher. The Math 200/UWM 105 or Introduction to College Algebra is offered through the M³ College Connections program which is open to students at all MPS high schools. For students that successfully complete Math 200/Math 105 or Introduction to College Algebra in first semester, they have had the opportunity to take MATC Statistics Math 260/UWM MATHSTAT 215, or Elementary Statistical Analysis in the second semester of the College Connections program.

Funds have been included in the proposed ESSER funds totaling \$1.8M which have been allocated to expand the number of students that can take dual enrollment math courses through both the co-teaching and on-campus models and explore the development of a STEM pathway in the M³ College Connections program. Additionally, \$1.5M has been allocated in the proposed ESSER budget to support MPS teachers becoming certified to teach MATC and UWM dual enrollment math courses at the high schools.