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To: VT School Counselors and VT School Leaders  
Re: VTVLC offering Essential Math for College and Careers (EMC<sup>2</sup>)

Contact: Anita Long, Academic Support Coordinator, VT GEARUP, [long@vsac.org](mailto:long@vsac.org)

Website: [www.vsac.org/emc2](http://www.vsac.org/emc2)

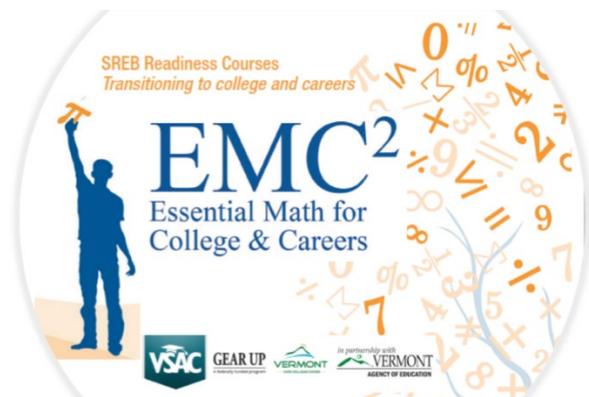
We are excited to announce that the Essential Math for College and Careers (EMC<sup>2</sup>) course is now available online through VTVLC. EMC<sup>2</sup> is a one-year, two-semester, one-credit high school course taught by a highly qualified VT high school math teacher trained through the EMC<sup>2</sup> Teacher Professional Development program. Student registration for fall 2022 VTVLC classes is now [open](#)!

Enrollment is **FREE** to any Vermont high school student who is appropriate for the course through the support of VSAC's GEAR UP grant. Register [here](#) with course code 02003AFY23 Essential Math for College and Careers. This is a year-long 1-credit high school math course.

This course is ideal for students who have completed algebra 1, geometry, algebra 2, or the equivalent but still need to strengthen their core algebra and numeracy skills or are missing key proficiencies for graduation. We have linked and assess specifically for 16 Essential Concepts all of which are drawn directly from the Common Core State Standard-Math standards. These Essential Concepts can readily link to high school math proficiencies. Students who are looking for an option to improve their conceptual understanding in a more hands-on, discussion-format, problem-based course would benefit from taking this course. Our data show that students who've taken EMC<sup>2</sup> feel more confident in math and about taking future math courses.

Partnering with VTVLC allows us to provide this course to students all around our rural state if their school cannot offer it on-site. To maintain the best practices of the course, this will NOT be self-paced. Students will occasionally participate in group discussions synchronously. Accommodations will be made to make participation accessible to many. Outside of the group discussions, students will have flexibility to engage in the materials like any other online course (at the best time that works for them.)

See [www.vsac.org/emc2](http://www.vsac.org/emc2) for the list of Essential Concepts and data results from students and teachers who've taught the course.



# EMC<sup>2</sup> QUICK FACTS

Essential Math for College and Careers (EMC<sup>2</sup>) was developed by a team of VT high school and college math educators, overseen by a consortium of educational leaders from VSAC's GEAR UP program, Vermont State Colleges (VSCS), and the Vermont Agency of Education (AOE).

EMC<sup>2</sup> is designed for high school seniors who have experienced the concepts of algebra 1, geometry, and algebra 2 but are not ready for college-level work in mathematics.

- EMC<sup>2</sup> curriculum interweaves topics and perspectives across eight units to build confidence, perseverance, and content mastery.
- EMC<sup>2</sup> pedagogy uses:
  - formative assessment
  - interactive dialogue
  - engagement with rich tasks
  - relevant content situations
  - gradual release of instruction
  - opportunities to explore and strengthen content standards using graphical, algebraic, and textual (verbal) approaches.
- Since 2019 EMC<sup>2</sup> has run 20 times in 13 schools.
- Initial student survey data shows positive results:
  - 73% of students report feeling better about math after taking EMC<sup>2</sup>
  - 75% of students report improved math skills after taking EMC<sup>2</sup>
  - 62% of students report improved confidence in their math ability after taking EMC<sup>2</sup>

For more information, go to [www.vsac.org/emc2](http://www.vsac.org/emc2) or contact Anita Long at [long@vsac.org](mailto:long@vsac.org)



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