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## Join VT schools in providing Essential Math for College and Careers (EMC<sup>2</sup>) to your students!

EMC<sup>2</sup> is now in its sixth year of providing college and career readiness in math for Vermont juniors and seniors around Vermont.

This course provides hands-on experience with relevant math and strengthens SEL skills needed to succeed academically. EMC<sup>2</sup> emphasizes problem-solving, perseverance, attention to precision/accuracy, communication skills, and working in groups. The eight units reinforce content taught in Algebra 1, Geometry, and Algebra 2 (or the equivalent) and allow students to use these skills to problem-solve in real-life scenarios.

The course has been taught in thirteen schools around Vermont and nearly 200 students have completed the course. For a list of schools, info for school leadership, or results from our student surveys, go to [www.vsac.org/emc2](http://www.vsac.org/emc2).

### Best Practices for course implementation:

- Students should be in their senior year of high school; schools have had success with juniors in the course when they have completed Alg 1 and Alg 2.
  - There is an expectation that students will have been exposed to concepts typically found in Algebra 1, Geometry, and Algebra 2. EMC<sup>2</sup> reviews all these concepts but does not introduce them as new concepts.
  - Frequent formative assessments are an essential element of the course. Providing students with targeted additional instructional time and instructional supports are best practice pedagogy.
  - Teaching practices in this course emphasize small group work, rich tasks, productive struggle, and mathematical discussions. Teachers are facilitators learning using best teaching practices outlined by NCTM.
  - This course is best structured as a full-year course with ample time for practice and discussion. However, the course is being delivered using a variety of hybrid, in-person, and remote teaching schedules. A fully online version of the course is offered through VTVLC.
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- Your school would identify the teacher, and EMC<sup>2</sup> provides curriculum content, teacher manual, student manual, and assessments free of charge.
  - There are 16 Essential Concepts in EMC<sup>2</sup> which align with the CCSS-M standards. Assessments provided align with these Essential Concepts. Mapping these to your graduation proficiencies is a part of the professional development course.
  - Teachers must attend the professional development designed to promote high quality teaching practices and practice the materials in the role of students and of teachers. Typically, this professional development course with graduate level credit is run in August; next summer's course is still TBA.

Please reach out with any questions or to be added to an email list of interested schools.

Thank you,  
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