NCSSM serves *all* of North Carolina

Whether it's providing students a head start on college, helping teachers transform their classrooms and teaching practice, or building sustainable new programs with district leaders, NCSSM serves communities all over our state.

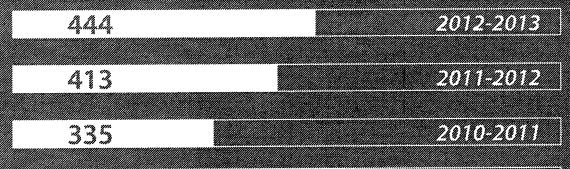
Service to Students

NCSSM Online

NCSSM Online is a supplemental, two-year program that gives your students a head start on college. Students remain enrolled locally and take two to four courses per year and can engage in club, leadership, community and summer programs with NCSSM that create a lifelong impact and build their interests in STEM. A NCSSM transcript is provided, and public school course codes are assigned to permit dual enrollment. Students apply during the sophomore year.

NCSSM Online: Rapid Growth
2009-present

A look at the increasing number of course enrollments in the NCSSM Online program



IVC Course Fast Facts

STEM, statewide

Interactive video conference lets students specialize in STEM courses that might not otherwise be available in their schools.

525 *Course enrollments each year*

32 *LEAs participating in IVC courses*

26 *IVC courses offered in 2013-2014*

With low-cost hardware, more schools than ever are offering IVC courses. Some students are connecting through free apps available for iPad.

Interactive Video Conferencing (IVC)

NCSSM is the major provider of interactive video conference (IVC) programming to the North Carolina K-12 community. Curriculum and professional development are provided tuition-free to schools statewide. NCSSM provides services to meet local needs resulting from insufficient staffing, student enrollment, resources, and/or funding.

During a live IVC class, the teachers use group activities, videos, whiteboard and desktop video conferencing combined with active classroom participation. Students collaborate with their peers taking the same course at other schools across North Carolina.

NCSSM offers advanced STEM courses, like Honors Genetics & Biotechnology, Honors Forensic Science, Honors Physics, AP Calculus AB, Honors Aerospace Engineering, and AP Environmental Science. We can also craft new course offerings in partnership with schools.

K-8 STEM Enrichment Programs

Our IVC enrichment sessions provide roughly one hour of enhanced core instruction for elementary, middle and high school students. Instruction is aligned with the Common Core, Essential Standards and the AP Calculus Topical Outline. IVC Enrichments are presented by a NCSSM teacher, student, or content expert on K-12 instructional topic. Enrichments reach about 2,000 students annually.

Service to Teachers

STEM@NCSSM

NCSSM creates hundreds of digital learning assets each year, including lessons, videos, animations, and professional development sessions. STEM@NCSSM provides no-cost access to the best items in NCSSM's collection.

YouTube channel

NCSSM's YouTube channel has a wealth of instructional video that teachers can use in their classrooms. The collection features over 600 videos, from chemistry labs to solar energy instruction to calculus problems, and has been accessed over 800,000 times. The NCSSM YouTube channel also has a number of archived professional development sessions for teachers, including a series on Common Core mathematics.

Service to Districts

Regional Partnerships

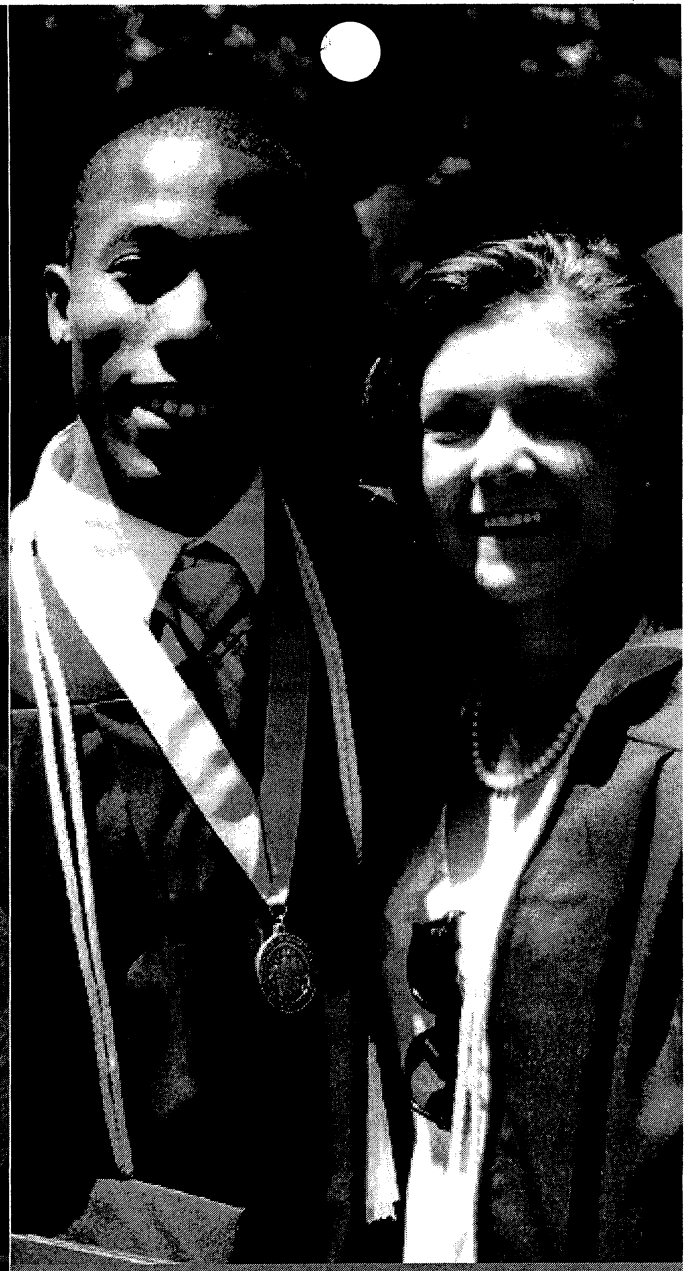
We engage and partner with communities and regions across the state to advance student learning and outcomes. Whether it's providing technical assistance for future-ready classrooms, summer programs, or developing custom curriculum, NCSSM meets LEAs where they are and develops solutions through a careful process of listening and learning. Recent partners include Mt. Airy City Schools, Burke County Schools, and the Roanoake River Valley Education Consortium.

Visit our site at http://www.ncssm.edu/learn to bring NCSSM into your school.

NCSSM Distance Education

Challenge what's possible

North Carolina School
of Science and Mathematics



Bring the NCSSM experience into your school.

Overview

Founded in 1980, the North Carolina School of Science and Mathematics (NCSSM) uses distance learning to challenge the limits of what's possible in public education. Each year, NCSSM provides tens of thousands of hours of instruction to students across North Carolina through online courses and interactive video conferencing.

Our tuition-free offerings help a new generation of academically talented students become state, national, and global leaders in science, technology, engineering, and mathematics and feel the excitement of discovery.

NCSSM's collection of digital materials is freely available to teachers across North Carolina. Every day, teachers use our STEM materials in their own classrooms.

Our reach

Number of North Carolina LEAs served by NCSSM distance learning in 2012-2013	**86**
Number of North Carolina schools served by NCSSM distance learning in 2012-2013	**166**
Number of visits to NCSSM's free digital content for students and teachers	**980,000+**

North Carolina School
of Science and Mathematics

www.ncssm.edu/learn
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