

## Phase I - FY 10

Develop a Math & Science Pathway by expanding Vertical Articulation Teams in Math and Science currently in place in grades 7 through 16.

Place Tutors in all Math and Science classes in grades 7 through 10 to better prepare students for upper level courses in high school and college.

Assess students for college readiness using the Accuplacer Test in Grade 11 as opposed to Grade 13.

Develop Accuplacer Remedial / Test Preparation classes to be taken in Grades 11 and 12 as opposed to Grade 13.

Develop additional Dual Enrollment courses to extend the Academy Programs at Lowell High School to the post secondary level.

Develop and implement an extended flexible day schedule for students attending the Health, Bio-Science, Technology and Engineering Academies.

## Phase II - FY 11

Continue to expand the Vertical Articulation Teams to include all Academy courses in Grades 6 through 16.

Increase and enhance the Dual Enrollment opportunities offered by MCC and UML to offer courses for high school students at all three campuses.

Fully fund Dual Enrollment for students in the three STEM Academies in Grade 13.

## Phase III - FY 12

Continue to expand the Vertical Articulation Teams to include all Academy courses in Grades 6 through 16.

Continue to enhance the Dual Enrollment opportunities for all students.

Continually assess the success of the Pathway and adjust as appropriate to meet the needs of all students.

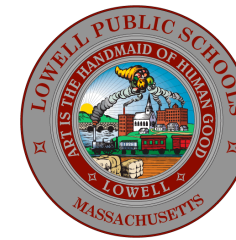
Fully fund Dual Enrollment for students in the three STEM Academies in Grades 13 and 14.

# A Model of Sustained Academic & Career Development for Urban Students

## PRE-K TO 16 PATHWAY

FEATURING

## THE STEM PATHWAY



Recently, the Lowell Public Schools, Middlesex Community College and University of Massachusetts Lowell together unveiled the Pre-K to 16 Pathway. One of the Pathways embedded within the Pre-K to 16 Pathway is the Science, Technology, Engineering and Mathematics Pathway, (STEM.) The STEM Pathway spans grades 6 through 14. The STEM Pathway represents the best practices and components of both the Governor's Readiness Project and the 21st Century Skills Initiative. It is being proposed that we would partner with the Department of Elementary and Secondary Education, Economic Development Council and the Workforce Investment Board. This ground-breaking Pathway will strengthen our joint mission to prepare students for 21st century success in the STEM fields. It is a model for educational excellence that allows all students to receive a seamless education beginning in their early years, across all levels of education. Further, the Pre-K to 16 STEM Pathway is a nationally replicable and eminently fundable model. We will seek support not only from state and local agencies, but also from sources such as Mass Insight Education & Research Institute and from federal sources such as the National Science Foundation and other regional and national foundations.



The Lowell Public Schools, Middlesex Community College and University of Massachusetts Lowell together are committed to providing our students with an excellent education in a diverse urban setting and to educational opportunities for all students. As members of Lowell's educational community, we enjoy the cooperation and partnerships with many agencies, community organizations, unions, parents and families.



In order for our students to be prepared for higher education, careers in the STEM fields and citizenship, it's up to all of us to engage, challenge and inspire our students. We believe this STEM Pathway will allow us to deliver on this responsibility.

