

NC Mathematics and Science Education Network (NC-MSEN) Pre-College Program and Wake County Public Schools

**Systemic Partnerships to Increase
College Access and Success Meeting**

San Antonio, TX

January 26, 2007

Purpose of Pre-College Program



The Pre-College Program is designed for students:

- In Grades 6-12
- Who lack sufficient exposure to mathematics & science based courses and careers

The Pre-College Program prepares students for:

- Mathematics and science studies at the university level
- Careers in science, mathematics, technology, engineering, and teaching

NC-MSEN Pre-College Program and our Partner Schools

- **14 Schools**
 - **6 Middle Schools (227 students)**
 - **8 High Schools (171 students)**
- **Total: 398 students**

College of Education Proposal

- **Fund a research study of the NC State NC-MSEN Pre-College Program**
- **Use the collected data to make the NCSU program more effective and leverage permanent funding support (i.e. financial assistance)**
- **Publish the research results through journal articles and a book chapter**



THE WILLIAM & IDA

FRIDAY INSTITUTE

FOR EDUCATIONAL INNOVATION

- **The William & Ida Friday Institute for Educational Innovation opened in November 2005.**
- **The Friday Institute for Educational Innovation – part of North Carolina State University’s College of Education – combines a wide range of talents and resources to foster, identify and formulate solutions to the most pressing educational challenges.**
- **The NC-MSEN Pre-College Program at NCSU is housed in the Friday Institute.**

Components/Enrichment Activities

- **Academic Enrichment Classes**
- **Academic Chapter of Excellence (ACE) Club**
- **Parents Involved in Excellence (PIE) Club**
- **Saturday Academy**
- **Summer Scholars**
- **MSEN Day**
- **Leadership Retreat**

NC STATE UNIVERSITY

NC-MSEN PRE-COLLEGE PROGRAM

Program Success and Statistics



College of
Education

NC STATE UNIVERSITY

Statistical Profile of NCSU NC-MSEN Pre-College students

- **100% of NC-MSEN Pre-College students have attended college for the past two years**
- **70% of our students plan to major in a STEM (science technology engineering mathematics) career area**
- **88% of NC-MSEN Pre-College Program seniors graduated with a grade point average of 3.0 or higher**

SAT Scores of NCSU NC-MSEN Pre-College students, 2006

The average SAT score earned by NC-MSEN-NCSU site Pre-College seniors in 2005-06 was 1034, 26 points higher than the statewide average for all North Carolina students and 177 points higher than the statewide average for African-American students.

	SAT Score
NC-MSEN NCSU	1034
North Carolina	1008
African- American Statewide	857

26 points
higher
177
points
higher