

Greenwood Laboratory School: Profile, Student Achievement, & Goals

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Missouri State
UNIVERSITY

www.education.missouristate.edu/Greenwood

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GREENWOOD LABORATORY SCHOOL



Our ***mission*** is to support Missouri State University as a laboratory of best practices in teaching and to prepare students who are knowledgeable, creative, caring and engaged citizens.

Our ***vision***, is that our students will become citizens of enhanced character who are

- competent in their abilities to contribute to society,
- sensitive to the needs of their community,
- committed to civic engagement, and
- civil in their habits of thought, speech, and action.

Our ***motto*** is *Civitas Discendo: Citizenship through Learning.*

Greenwood and the Role of a Laboratory School

Greenwood Laboratory School is a member of the National Association of Laboratory Schools. As such, it is one of a unique group of K-12 laboratory schools that serve within post-secondary settings. According to the National Association of Laboratory Schools, laboratory schools are “affiliated with a college or university for specific purposes that go beyond the scope of traditional public and private schools.” In addition to providing the best possible educational programs for children, laboratory schools provide optimal environments for:

- *Innovative Curriculum Development:* Providing a laboratory of human resources to engage create, pilot, and evaluate innovative new curriculum materials and teaching strategies
- *Clinical Teaching Experiences:* Providing for observation and a variety of practica experiences for pre-service teachers and administrators
- *Research:* Providing a setting for a variety of investigations that can be conducted by teachers, professors, graduates students, and undergraduate students

Greenwood fulfills these three roles of a laboratory school on the campus of Missouri State University in a variety of ways. For the purpose of this document, one example of current Greenwood activities in support of each role is listed below, but Greenwood proudly fulfills each of the three roles in a comprehensive manner.

Innovative Curriculum Development

Greenwood faculty implements service-learning activities across the K-12 curriculum. In the fall of 2008, students in the high school Humanities course studied environmental conservation issues as an example of a current American value. Based on this study, students worked with US Department of Agriculture’s Natural Resources Conservation Service to prepare conservation lessons for pre-school and kindergarten students. The high school students will teach five separate half-hour lessons: two to pre-school students at the MSU Child Development Lab and three at Williams Elementary School in November.

Clinical Teaching Experiences

Greenwood serves as a site for a wide variety of teaching practica at all levels, K-12. Each year, the Greenwood faculty supervises dozens of practicum students and student teachers with an average of 1,550 field experience hours annually. In addition, hundreds of observation hours are logged at Greenwood by MSU students.

Research

One example of a current research study involving Greenwood faculty and students is a study titled “A Study Comparing the Comprehension of Ninth and Twelfth Grades Students When Assigned Homework Texts in Written Format verses a Listening Format (MP3 file).” This study is funded by a grant from the MSU College of Education Dean’s Office.

School Profile

History of Greenwood Laboratory School

Greenwood Laboratory School is proudly celebrating its 101st year in 2008-2009. Greenwood began soon after the Normal School (now Missouri State University) began. Initially Greenwood consisted of a few classes used for training of future teachers. By 1908 the first two grades were in Carrington Hall and grades three through eight were in the bungalow on the southwest corner of Kings and Madison. Classes were also held in a building known as Pickwick House. High school classes were in a separate department and served rural schools which did not offer high school classes. In 1924 the school's name was changed from the "training school" to Greenwood Laboratory School named after Dr. James Michaelborough Greenwood, a well known educator in Missouri. It combined with the high school classes and moved into the newly built education building now known as Hill Hall. A building designed for Greenwood students K-12 with observation rooms connected to most of the classrooms opened in 1966 and continues to house the school today.

About Greenwood

Greenwood Laboratory School is located on the campus of Missouri State University and is a department in the College of Education. Greenwood has a comprehensive Kindergarten through Grade 12 educational program with a total enrollment of 338 students: 185 in grades elementary K-6, 60 in middle school grades 7-8, and 94 in high school grades 9-12.

Greenwood High School meets the graduation requirements of the Missouri Department of Elementary and Secondary Education. A college-preparatory curriculum is offered and students earn the Public Affairs Scholars Diploma by meeting all state requirements and additionally earning four service-learning merits and completing a rigorous graduation exhibition. At the high school level, co-curricular activities include athletics (soccer, basketball, track, cross country, golf, tennis, swimming, and cheerleading), student council, clubs (Culture Club, Math Club, Greenwood Service Society, Fellowship of Christian Athletes), and debate.

Students are admitted through an application process without regard to place of residence. Tuition for the 2008-2009 academic year is \$4,366. Average daily attendance in 2007-2008 was 96.8%. Current racial demographics, self-reported by parents, are as follows: 84% Caucasian, 5.9% Asian, 1.5% Hispanic, 1.2% Native American, with 6.5% unreported.

Faculty, Staff and Administration

Twenty-two full-time faculty and four part-time faculty teach Greenwood students. Over 90% of the teaching faculty have a masters degree or higher and have an average of 9 years teaching experience at Greenwood Laboratory School. Several faculty members hold multiple certifications. The Greenwood administration includes the Director, Dr. Janice Duncan, and the Assistant Director, Mr. Steve Seal. The Greenwood Library is a satellite of MSU's Meyer Library and is staffed with a librarian and a librarian assistant.

Accreditation

Greenwood High School has enjoyed continuous accreditation by the North Central Association of Schools since 1927. In 1992, accreditation was extended to grades K-8. In 2008, Greenwood's accreditation was consolidated, and the school's entire academic program, grades K-12, is now accredited as a unit school.

Academic Programs

Elementary Program

At Greenwood, the elementary academic program is organized around seven self-contained classrooms, grades K-6. All elementary students receive instruction from special areas teachers in art, music, physical education, library skills, computer literacy, and Spanish. Social studies and science instruction is departmentalized in grades 5 & 6, and the 6th grade class uses the high school's science laboratories to enhance the science curriculum. Inquiry learning using computer technology (eMints program) is practiced in grades 3-6. Qualifying students in grades 5 and 6 may enroll in Algebra I.

Middle School Program

At Greenwood, the middle school program is composed of the 7th and 8th grades. In addition to required courses in the core subjects, middle school students may take wellness, art, vocal and instrumental music, and speech. World Languages is offered in the 7th grade. Algebra I is available to qualifying students. Teachers meet with students advisory groups every other week.

High School Program

Graduation requirements at Greenwood meet that standards of the Missouri Department of Elementary and Secondary education and include: twenty-two (22) units (24 units will be required for the Class of 2010), successful completion of four (4) Public Affairs Merits, and mastery of the three components of the Greenwood Graduation Exhibition (written, public speaking and gamma; the gamma component offers analysis of research and service learning through a creative, multi-media presentation). Upon successful completion of these requirements, all Greenwood graduates are awarded the Public Affairs Scholars Diploma. The Public Affairs Honors Diploma is awarded to students who complete an additional four (4) Public Affairs Merits. Note: *The 2008-2009 Public Affairs Handbook* is available on at the Greenwood website at www.education.missouristate.edu/Greenwood.

Public Affairs Scholars Diploma

In addition to other graduation requirements, 22 units of credit earned and successful completion of the Graduation Exhibition, students are required to earn four *Scholars Merits*. *Scholars Merits* are earned in four designated courses, one each year, in grades 9-12. Beginning with the freshman year, one or more required courses each year are identified as a

Designated Public Affairs Course. Each designated course includes an embedded service learning activity as part of the regular course curriculum. A *Scholars Merit* is awarded based on successful completion of the following steps:

1. plan and/or participate in a service learning activity
2. submit a 2-page, double-spaced, typed reflection paper that includes a) one-paragraph description of activity, b) 3-4 paragraph personal response, and c) 3-5 paragraph analysis of relation to curriculum.
3. share the service learning experience in class or community.

The Public Affairs Honors Diploma (optional)

Students electing to earn the Public Affairs Honors Diploma will successfully complete four *Honors Merits* in addition to meeting all requirements for the Scholars Diploma. One Honors Merit must be a student-proposed service learning activity, and one Honors Merit must be based on volunteer hours. The other two merits may be earned in any of the three categories listed below. No more than two merits may be earned from any one category. The categories are:

- A. Instructor-proposed service learning activity
- B. Student-proposed service learning activity
- C. Student-proposed volunteer hours

Graduation Exhibition

As a means of ensuring that all graduates possess essential critical thinking skills and communication skills, Greenwood Laboratory School requires a Graduation Exhibition of its seniors as an exit assessment. The Graduation Exhibition is a student-centered, culminating project which is presented before an audience for review. Seniors are required to exhibit their abilities to:

- communicate effectively in writing
- communicate effectively in speaking
- think critically
- access information from a variety of scholarly and authentic source
- express ideas with creativity, and
- act responsibly

As means of displaying these abilities, the exhibition includes three parts: the *written component*, a traditional research paper analyzing an authentic topic/issue in the local community, the *public speaking component*, including a 5-7 minute formal synopsis of the research topic and a 20 minute question and answer period, and the *multimedia component (called the “gamma”)*, a media presentation which offers analysis of the relationship between the research topic and the student’s required service learning experience.

The exhibition components are assessed as either Distinguished, Mastered or Not Mastered using detailed rubrics. Students must be assessed as Mastered in all three exhibition components in order to graduate. If any component is assessed as Not Mastered, the student is required to revise it and to repeat that component at a later date prior to graduation.

Concurrent Enrollment

Greenwood students may choose to enroll at Missouri State University and complete course work toward a college diploma. Course work completed in college may also count toward high school graduation. Missouri State University offers tuition waver for 6 credit hours for Greenwood seniors.

Online Classes and Resources

Three courses are available online: Physical Education, Health and Personal Finance. High school credit is earned with these courses, and the courses may be taken during the regular academic year or in the summer. These courses are taught using *Blackboard Academic Suite* as the online platform.

In addition, secondary students and parents have access to course information, assignments, grades, discussion boards and email through the *Blackboard Academic Suite*.

Ecuadorian Exchange Program

Greenwood exchanges students with the Leonardo da Vinci School in Mara, Ecuador. Ecuadorian students come to Greenwood for six weeks in the spring semester, and Greenwood student go to Ecuador in July.

High School Courses Offerings

The following courses are offered at Greenwood High School

Communication Arts

English I
English II
English III
English IV
Speech
Debate

Science

Physical Science
Biology I
Biology II
Chemistry I
Chemistry II
Physics I
Physics II

Practical Arts

Word Processing
Computer Applications
Internship
Media
Personal Finance
Business Procedures I
Business Procedures II

Social Studies

American History
World Civilizations
American Government
Research Topics in SS
Humanities
Service Learning Capstone

Foreign Language

Spanish I
Spanish II
Spanish III
AP Spanish IV
French I
French II

Physical Education

Physical Education
Health

Mathematics

Geometry
Algebra I
Algebra II
Pre-Calculus
Statistics & Probability

Fine Arts

Art I
Art II
Art III
Art IV
Independent Study in Art
Band
Choir

Other

Mentoring
Yearbook

Student Achievement Data

Senior Class Data: Classes of 2002-2008

	2002	2003	2004	2005	2006	2007	2008
Class Size	23	24	27	24	26	28	30
Hours Enrolled @MSU	129	267	243	160	216	241	234
Average GPA in MSU courses	3.20	3.46	3.63	3.50	3.31	3.53	3.48
ACT Scores: Greenwood	25.3	25.9	26.3	24.8	25.96	25.96	26.7
ACT Scores: State Average	21.5	21.4	21.5	21.6	21.6	21.6	21.6
ACT Scores: National Average	20.8	20.8	20.9	20.9	21.1	21.2	21.1
% of Graduates Attending College	96%	96%	96%	100%	96%	100%	100%
Bright Flight Scholars (31+ACT)	6	3	5	4	6	6	5

Missouri Achievement Program Performance: Percentages of Students in Top Two Achievement Levels

Communication Arts MAP Scores Grade 3						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood	65	80	69	75.8	63	63
State				43.3	43.6	40.9

Communication Arts MAP Scores Grade 4						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood				66.7	86	69
State				44.7	45.9	45.6

Communication Arts MAP Scores Grade 5						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood				76.6	84	76
State				46	48.6	48.6

Communication Arts MAP Scores Grade 6						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood				50	82	93
State				43	44.4	47.6

Communication Arts MAP Scores Grade 7						
School	2003	2004	2005	2006	2007	2008
Greenwood	73	80	66.6	63.3	71	88
State				43.9	45.5	49.3

Communication Arts MAP Scores Grade 8						
School	2003	2004	2005	2006	2007	2008
Greenwood	83.3	76.9	81.5	88.9	50	68
State				42.5	53.6	48.4

Communication Arts MAP Scores Grade 11						
School	2003	2004	2005	2006	2007	2008
Greenwood	83.3	76.9	81.5	100	97	100
State				42.7	41.8	39.2

Math MAP Scores Grade 3						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood				70	70	77
State				44	45.7	44.3

Math MAP Scores Grade 4						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood		78		66.7	80	73
State				44.1	45.2	44.7

Math MAP Scores Grade 5						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood				76.6	87	86
State				44	47.3	46.2

Math MAP Scores Grade 6						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood				69.3	89	90
State				44.6	48.6	51.1

Math MAP Scores Grade 7						
School	2003	2004	2005	2006	2007	2008
Greenwood				90	79	96
State				43.8	45.8	49.8

Math MAP Scores Grade 8						
School	2003	2004	2005	2006	2007	2008
Greenwood		26		92.6	79	90
State				40.7	41.6	44.3

Math MAP Scores Grade 10						
High School	2003	2004	2005	2006	2007	2008
Greenwood		37		86.7	95	95
State				42.4	41	46.2

Science MAP Scores Grade 3						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood		87	79.3	58.6	57	NA
State				47		

Science MAP Scores Grade 5						
Elementary School	2003	2004	2005	2006	2007	2008
Greenwood						69
State						44.7

Science MAP Scores Grade 7						
School	2003	2004	2005	2006	2007	2008
Greenwood		40	26.7	13.3	25	75 (8 th gr)
State				16.2		43.7

Science MAP Scores Grade 10						
School	2003	2004	2005	2006	2007	2008
Greenwood		10	25.9	35.7	47	100 (11 th gr)
State				19		47.6

State & National Assessment Results: Explore Test and ACT, 2004-2008

Figure 1: EXPLORE: Eighth Grade

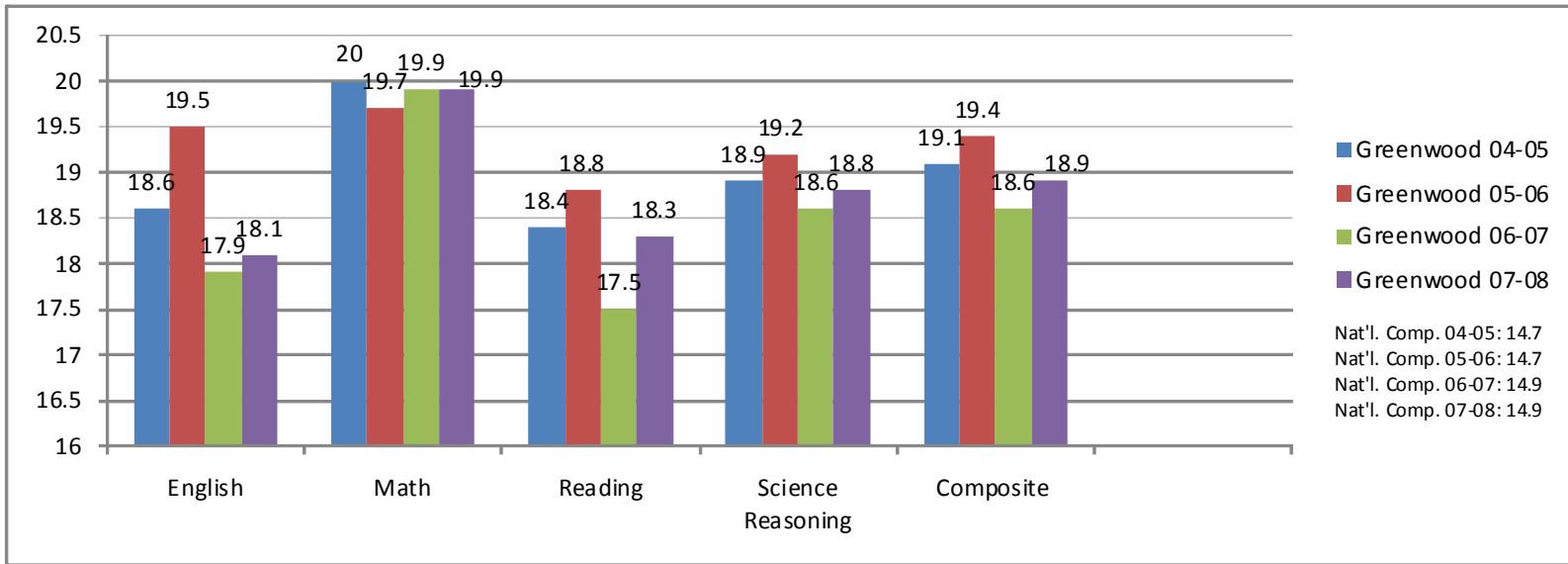
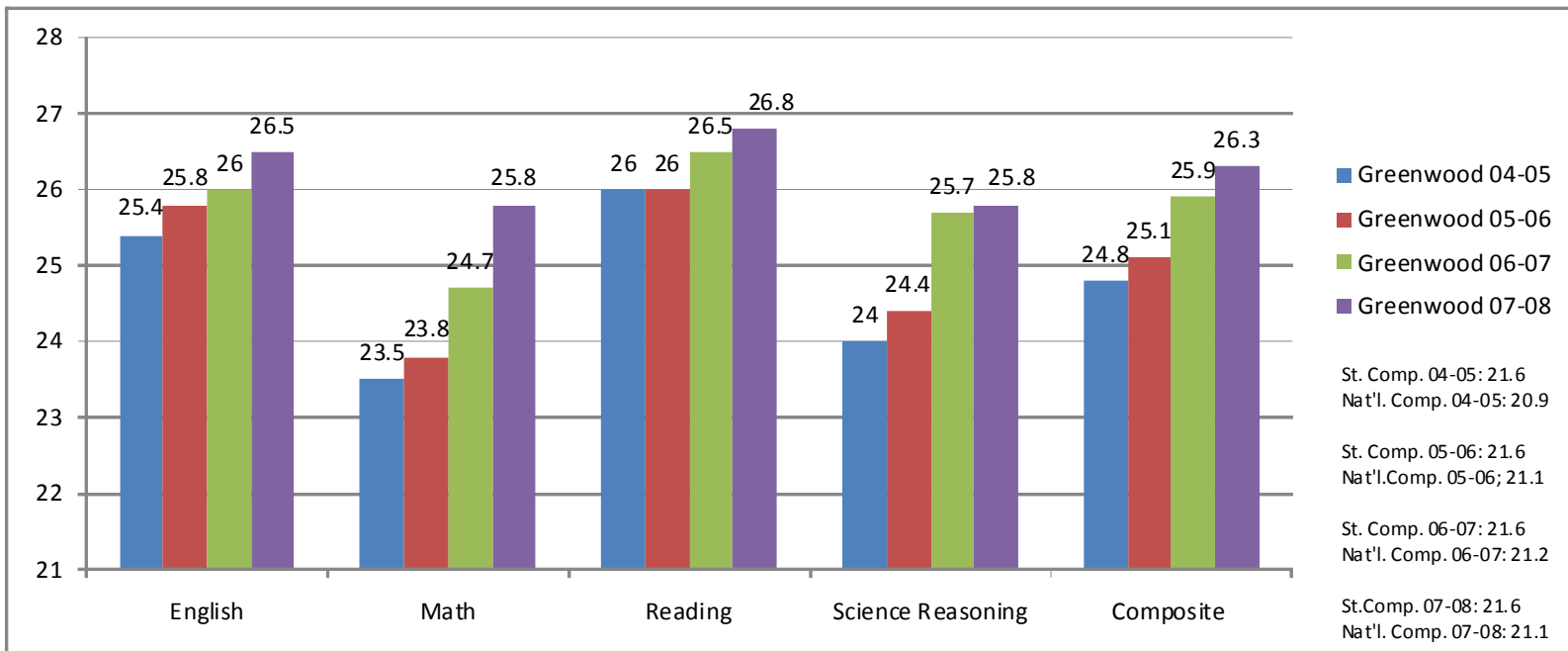


Figure 2: ACT



Individual Student Recognitions during 2007-2008

- T. J. Auner is state champion in two swimming events
- Miles Barnhart won Grand Prize in Ozarks Science and Engineering Fair qualifying for International Science Fair in New Mexico
- Molly Carnahan & Ali Haseltine-First Place in Behavioral and Social Science
- Andrew Miller & Nolan Goth-First Place in Microbiology.
- Hari Anand and Madison Priest-First place at SBU Math contest.
- Bailey Mills-Language Arts Fair Spelling Bee representative.
- Greenwood Junior Class-Outstanding Unit Award– Missouri State Finals “We the People”
- Lauren Johnston-all state band
- District Band-Lauren Johnston, Katie Frederick
- Sarah Godwin-State Qualifier in Golf
- Rachel Stroder-State semi-finalist in GeoBee-Top 100 in United States
- Science Olympiad –Joe Esther & Brandon Haake-1st with “Crave the Wave”
- Science Olympiad-Kristen Meinert & Rachel Stroder-1st with “Road Scholar”
- Taylor Aiken-Missouri Scholar 100-Top 100 students in Missouri
- Samantha Myears-Missouri Leadership Seminar and Sophomore Pilgrimage
- Boys State-Josh Burk, Patrick Connor, Brad Cook, Matt Cook, Warren House, Nick Minter, Alex Thompson.
- National Debate Qualifiers-Sarah Godwin & Katie Frederick
- Law Day Essay Contest swept first, second and third places -Jackie Dugan, Bayli Martin and Rachel Stroder

Initiatives, Goals, and Activities

As a laboratory school on the campus of Missouri State University, Greenwood addresses two service areas: I. The Education of Youth and II. Collaboration with the Teacher Education Programs of Missouri State University. Listed below are initiatives and goals for each of these service areas with activities listed in support of each goal.

Service Area I: The Education of Youth

Initiative 1. Provide a high quality academic curriculum which develops students who are knowledgeable, creative, caring, and engaged citizens.

Goal One: Develop an innovative and comprehensive K-12 curriculum that meet or exceed national standards.

Activities

- K-12 curriculum guides address Missouri and national standards
- Curriculum guides for new courses offered in 2008-2009: Elementary Spanish, World Languages
- Algebra is available to qualifying students in grades 6-8
- Science instruction is departmentalized and conducted in the high school science laboratories for grade 6

Initiative 2. Provide a high quality curriculum that enhances social, emotional, and physical development

Goal One: Develop curriculum to address the affective domain

Activities

- Missouri Comprehensive Guidance program implemented in elementary grades
- Middle school advisory and team building activities
- Student and parent awareness presentations on the topics of alcohol abuse and internet security

Initiative 3. Provide evaluations of student achievement that include using reliable and valid assessment tools

Goal One: Provide students the opportunity to demonstrate what they have learned through a variety of assessment strategies.

Activities

- Missouri Assessment Program, tests administered
- Missouri Assessment Program, End of Course assessments to be administered beginning in 2009
- Performance-based assessment practices throughout the K-12 curriculum
- Graduation Exhibition

Initiative 4. Develop in students an appreciation for the responsibility of lifelong citizenship and global awareness

Goal One: Provide authentic opportunities for students to contribute to the community.

Activities

- Community service and service learning activities in the K-12 curriculum
- Service learning (Public Affairs Merits) in each grade, 9-12, required for high school graduation
- Class fundraisers for charitable organizations (e.g. Relay for Life, Lymphoma and Leukemia Society)
- Clubs and service organizations conduct community service activities

Goal Two: Provide opportunities for students nearing graduation to develop personal awareness of good citizenship including enhanced character, sensitivity to the community, contribution to society and civility in habits, thoughts, speech and actions.

Activities

- Service Learning Capstone Course (25 hours of service learning required)
- For 2008 presidential election, 44% of Greenwood juniors and seniors volunteered at polling locations or updated televised election results at KY3, local NBC affiliate
- Mock elections were held for Greenwood students and faculty and at Rountree Elementary School

Goal Three: Provide opportunities for students to increase their understanding of and respect for other cultures

Activities

- Exchange program between Greenwood and the Leonardo da Vinci School in Mara, Ecuador
- Public Affairs Symposium to expose middle school and high school students to speakers from other cultures
- Increased Spanish instruction in grades K-6 (3X weekly)
- World Languages offered at 7th & 8th

Initiative 5. Enhance learning performance of students through collaboration of students, teachers and families.

Goal One: Increase opportunities for dialogue among students, teachers and families regarding student performance.

Activities

- Parent teacher conferences (once each semester for elementary, once in fall for middle school and high school)
- *Blackboard Academic Suite* (student and parent access to assignments, grades, email)

Goal Two: Provide an optimal learning environment for all Greenwood Laboratory School students.

Activities

- Access to technology (classroom computers including 15 stations in grades 3-6, two 30-station computer labs, a mobile class set of laptop computers, SmartBoards in every classroom, *Blackboard Academic Suite*)
- Middle school and high school students have library privileges at MSU's Meyer Library
- All faculty have masters degrees or higher
- Seven faculty are ranked and tenured members of the MSU faculty
- Elementary teachers have 100+ hours of training in inquiry learning through the eMints program

Initiative 6. Integrate technology across the K-12 curriculum

Goal One: Provide opportunities to develop the essential technology skills in all students.

Activities

- Access to technology (classroom computers include 15 stations in grades 3-6, two computer labs, mobile class set of laptop computers, SmartBoards, *Blackboard Academic Suite*)
- eMints program of computer-based inquiry learning used in grades 2-6
- High school courses: Word Processing and Computer Applications
- Media lab

Service Area II: Collaboration with the Teacher Education Programs of Missouri State University

Initiative 1. Assist the University in achieving its goal, “...to prepare professional educators capable of both designing and ensuring effective learning programs for diverse students in rural, suburban and urban school districts across our state and the nation” (Ibid, p. 24).

Goal One: Provide varied classroom experiences for pre-service teachers.

Activity

- Greenwood faculty supervises dozens of practicum students and student teachers with an average of 1,550 field experience hours annually. In addition, hundreds of observation hours are logged at Greenwood by MSU students.

Initiative 2. Serve as a site for experimental and innovative programs related to the education of K-12 students and pre-service teachers.

Goal One: Conduct and disseminate results of studies regarding teaching and learning in a K-12 setting.

Activities

- Faculty publications regarding best practice and research results include articles in several national, refereed, professional journals (e.g. *Social Education, The Reading Teacher, Journal of Reading Education, The Clearing House, International Journal of Business Disciplines, Etudes Celineiennes (France)*)
- Faculty have authored chapters in books (e.g. *The Challenge of Change: Assessment in the 21st Century*)
- Faculty have made presentations at professional conferences (National Council for the Social Studies, Central Stated Conference on the Teaching of Foreign Languages, MU Language Teaching and Technology Conference, National Association of Laboratory Schools)

Initiative 3. Provide a milieu in which Greenwood Laboratory School and MSU faculties are role models in information exchange and collaboration.

Goal One: Provide a structure for collaboration between Greenwood faculty and other MSU faculty

Activities

- Faculty from Greenwood exchange classes with faculty from other departments in the College of Education (e.g. Greenwood 2nd grade teacher exchanged courses for an entire school year with a faculty member in the Department of Reading and Special Education)
- Faculty collaborate with College of Education faculty in research (e.g. Greenwood 5th grade teacher collaborated with faculty from the College of Education and the College of Business Administration on an economics unit taught at Greenwood)

- Greenwood faculty appointed to serve as “Teacher in Residence” in the College of Education for one academic year (Dr. Steve Hinch, Mrs. D’Arcy Simmons, Mrs. Jill Martin)
- Poetry instruction in 1st grade by Pauline Barker, MSU Emeritus Professor

Initiative 4. Enhance the public perception of Greenwood Laboratory School.

Goal One: Promote a positive community-wide image of a supportive school climate for teachers and students.

Activities

- Marketing survey conducted for Greenwood by Ms. Sherry Cook’s MUS Marketing course
- Annual classroom observations by Drury University students
- Students interviews conducted by doctoral students from the Forrest Institute of Psychology
- Greenwood marketing in local print media: *Springfield News Leader*, *Springfield Business Journal*
- Greenwood marketing to local professional organization: Delta Kappa Gamma
- 5th grade project with area rest homes

Goal Two: Establish, maintain and evaluate a summer youth program that features a blend of academics and enrichment in a progressive and fun learning environment.

Activities

- Greenwood sponsors the Missouri Public Affairs Academy (a summer enrichment program for high school juniors and seniors from around Missouri)
- Online courses available for high school students: Physical Education, Health and Personal Finance
- Summer elementary workshops offered for grades K-6

