

The Mississippi School for Mathematics & Science (MSMS) 2002-2003

MSMS Student Data 2002-2003				
	<u>Juniors</u>	<u>Seniors</u>	<u>Total</u>	<u>Percent</u>
Number of Students	136	145	281	-----
Number of Females	71	70	141	50.0%
Number of Males	65	75	140	50.0%
Number of Black	18	37	55	19.6%
Number of White	105	90	195	69.0%
Number of Minorities (excluding Black)	13	18	31	11.0%
Number of counties represented by these students:		58		
Date Revised and Reported: 10/07/03				

Overview & Mission	
Overview	*Public, residential, co-educational high school for academically talented juniors and seniors. Created by legislative enactment on July 1, 1987. *Located on the campus of the Mississippi University for Women in Columbus, Mississippi. *First class graduated in 1990. *Created to enhance the future of Mississippi by providing innovative learning experiences in a residential environment to meet individual needs of gifted and talented students and by providing quality educational leadership and aggressive outreach programs.
Legislation	Created by legislative enactment on July 1, 1987.
Student Selection	
Process	*Students are selected from across the state of Mississippi through a competitive process that culminates during April of the tenth-grade year. *The applicant's interest in mathematics, science, and technology is considered as well as past academic performance, standardized test scores, extracurricular interests, and accomplishments. *Recommendations from the home school, student essays, and personal interviews are also used to develop as accurate a picture as possible.
Residence Life	
Housing	*Students are housed in residence halls supervised by professional staff and resident advisors. *Comprehensive Residential Life program focuses on student development.

Activities	*Student government, sports, academic competition teams, approximately 15 clubs, and 3 student publications. * Field trips are planned regularly to take advantage of cultural and recreational events. *All students are required to participate in regular activities that promote physical well-being. *Fully-equipped gymnasium with professional staff and a broad program of intramural sports. *Member of the Mississippi High School Athletic Association competing in soccer, swimming, tennis, golf, basketball.
Work Service Program	*Student participation required. *Students do custodial work and assist in science laboratories, academic or administrative offices, and the MUW library and post office. *Promotes a sense of community and responsibility and allows students to make a return investment for the opportunity to attend MSMS.
Faculty	
Average teaching experience	16.2 years.
Percent with advanced degree	Approximately 35% hold the doctorate degree.
Academic Program	
Academic level	*Courses taught at the Honors level. *Collegiate-type schedule with most courses meeting 3 hours per week and labs meeting 1.5 hours per week. Some advanced courses meet 4.5 hours with a extra lab for science courses.
Average class size	18 students.
Number of academic units	*Usually a minimum of 6.5 units per year. *Juniors average 6 - 6.5 units; seniors average 7 – 7.5 per year.
Evaluation of Student Progress	*Quarterly evaluations with averages computed by semester and/or year. Grading scale: 90 – 100 = A, 80 – 89 = B, 70 – 79 = C, 0 – 69 = NC (No Credit Given). *Other marks listed on transcripts may include WP (Withdrawn Passing) and WF (Withdrawn Failing). *MSMS does not compute grade-point average or class rank.
Dual Enrollment	Seniors with a composite ACT of 25 or higher may be concurrently enrolled at MUW in two programs, University English and the AP Calculus curriculum. Each course also provides appropriate preparation for the AP examination.
Special Study Options	During spring of the junior year, students may apply to enroll in Research. Students are placed either with an MSMS instructor or at nearby MSU. Students earning ½ credit in Research work about 4 hours per week. Summer opportunities are also available. MSMS students are involved in research in many disciplines including engineering, chemistry, veterinary medicine, physics, computer science, and mathematics.
Mentorship	Available to selected students during the senior year. Minimum of three hours per week spent with a professional in the community who works in an area that the student is considering as a career choice.
Graduation Requirements	
Credits	23 credits are required for graduation. Of these, a minimum of 13 units must be earned at MSMS.

MSMS units required	English – taken each year for a total of 2 units. Mathematics – minimum of two credits in mathematics and successful completion of either AP Calculus I or AP Statistics I. Science – minimum of three credits in science: one credit each in biology (must include Cell Biology), chemistry, and physics (½ credit must be earned in a mechanics course). Mathematics/Science Elective – an additional unit of either mathematics, science, or an approved interdisciplinary course is required. Computer Science – In lieu of a computer applications course, students must be able to demonstrate computer proficiency. *Students taking any required courses prior to enrolling at MSMS will add elective units to make up the required total of 13 credits at MSMS.
Other units required	Social Studies – A total of 3.5 units are required for graduation: 1 unit of United States History – 1877 to Present; ½ unit of Mississippi Studies; ½ unit of American Government; 1 unit of World History; and ½ unit of Economics or Geography. Foreign Languages – Two units are required. The Arts – One unit is required in music, art, and/or drama. A maximum of one unit of the Arts may be applied toward the required 13 units at MSMS. Electives – Students will enroll in a sufficient number so that the total number of credits earned at MSMS is at least 13 units.

MSMS Outreach Survey Summer Programs

2001:

(3) Empowering Teachers With Technology
(2) Establishing A Presence With HyperPresence
(3) Summer Life Science Camps
Institute for African American Males
Mathematics Success Skills Program
Making Mathematics Meaningful
Vernier/Texas Instruments Physics Workshop
(2) Teaching Algebra & Geometry with Technology

2002:

(3) Math Links
(2) Empowering Teachers With Technology
Institute for African American Males
(2) Summer Life Science
The Math Connection

2003:

Mathematics in Context
JAVITS

Number of Students Benefitting from Workshops

1991	7,800	1997	17,539	
1992	17,021	1998	9,552	
1993	17,390	1999	9,553	
1994	22,317	2000	14,020	
1995	13,254	2001	19,768	
1996	10,127	2002	6,561	
		2003	3,600	TOTAL 168,502