Garland Independent School District  
Equal Opportunity Statements

Title IX  
1. No administrative officer or employee of the Garland Independent School District, acting in his/her official capacity, may discriminate on the basis of a person's sex, race, religion, color, language, or national origin regarding: personnel practices, including assigning, hiring, promoting, compensating, and discharging employees; use of facilities; awarding contracts; and participation in programs.

2. No student shall, on the basis of sex, race, religion, language, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity sponsored by this school district except as specifically provided in Title IX implementing regulations.

Inquiries regarding any of these statements should be directed to Dr. Gary Reeves, Assistant Superintendent of Personnel, P.O. Box 469026, Garland, Texas 75046-9026, (972) 487-3040.

Section 504  
1. No qualified handicapped person shall, on the basis of handicap, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity sponsored by this school district except as specifically provided in Section 504 Implementing Regulations.

2. Garland Independent School District does not discriminate on the basis of disability by denying access to the benefits of District services, programs, or activities.

Inquiries regarding any of these statements should be directed to the Director of Special Programs, P.O. Box 469026, Garland, Texas 75046-9026, (972) 487-3177.

Career and Technical Education  
Career and Technical Education offers students an opportunity to learn skills they may use in high school, in a career after graduation and/or as a financial means to help further education. In addition, Career and Technical Education is designed to provide students the opportunity to make informed occupational choices, determine educational needs and options, develop employability traits, and acquire marketable skills. The Career and Technical Education courses are described in the information that follows.

The Garland Independent School District offers Career & Technical Education programs in Agricultural Science, Business Education, Career Orientation, Family and Consumer Sciences, Health Science Technology, Marketing Education, Trade and Industrial Education and Technology Education. Admission to these programs is based on: career interests, age appropriateness, class space available, prerequisites and aptitude for the program, and adherence to school rules and regulations.

It is the policy of the Garland Independent School District not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices and/or its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

The Garland Independent School District will take steps to ensure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. The Garland Independent School District offers a free and appropriate education to eligible students.

For information about your rights or grievance procedures, contact the Title IX Coordinator, Dr. Gary Reeves, Assistant Superintendent for Administration, P.O. Box 469026, 501 South Jupiter Road, Garland, TX 75046-9026, (972) 487-3041 and/or the Section 504 Coordinator for Students, Dr. Theresa Williams, Director of Special Programs, P.O. Box 469026, 501 South Jupiter, Garland, TX 75046-9026, (972) 487-3177. Employees needing information regarding employment rights or grievance procedures should contact Dr. Gary Reeves at the address or phone number above.
NORTH GARLAND HIGH SCHOOL
2109 BUCKINGHAM ROAD
GARLAND, TEXAS 75042

DR. GLENGA WILLIAMS PRINCIPAL

JASON JETTON, MST ASSISTANT PRINCIPAL
EMILIE BAXTER, MST PROGRAM COORDINATOR
SANDRA GODWIN, LEAD COUNSELOR

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MASCOT: RAIDER SAM

DAILY SCHEDULE:

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:20</td>
<td>1ST BELL</td>
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<td>WARNING</td>
</tr>
<tr>
<td>7:30-9:00</td>
<td>A1/B1</td>
</tr>
<tr>
<td>9:04</td>
<td>WARNING</td>
</tr>
<tr>
<td>9:06-10:36</td>
<td>A2/B2</td>
</tr>
<tr>
<td>10:40</td>
<td>WARNING</td>
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<tr>
<td>10:42-12:54</td>
<td>A3/B3</td>
</tr>
<tr>
<td>12:58</td>
<td>WARNING</td>
</tr>
<tr>
<td>1:00-2:30</td>
<td>A4/B4</td>
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</table>

-LUNCH SCHEDULE-

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<tr>
<th>Time</th>
<th>Activity</th>
</tr>
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<tbody>
<tr>
<td>10:45-11:15</td>
<td>A LUNCH</td>
</tr>
<tr>
<td>11:18-11:48</td>
<td>B LUNCH</td>
</tr>
<tr>
<td>11:51-12:21</td>
<td>C LUNCH</td>
</tr>
<tr>
<td>12:24-12:54</td>
<td>D LUNCH</td>
</tr>
</tbody>
</table>
PROGRAM OVERVIEW

The Math, Science, and Technology Program at North Garland High School is designed to prepare high achieving students for advancement in an ever-changing, technological world. Through interactive multimedia instruction, students are exposed to an integrated curriculum that focuses on problem-solving and practical applications of math and science. This approach is designed to accelerate students in math, science and technology, and better prepare them for college or employment.

In addition to general coursework in math and science, MST students have the opportunity to choose from a wide variety of elective courses within the MST program. Many courses available in the MST program are designated as dual enrollment courses, allowing students to earn both high school and college credit at the same time. After completing a prescribed list of courses, MST students qualify for an endorsement in one or more of the following concentrations:

- Computer Science
- Multimedia Applications
- Telecommunications
- Medical Studies (Academic Focus)
- Medical Studies (Technical Focus)
- Comprehensive Science Studies
- Engineering
- Architecture
- Interdisciplinary Studies (Undeclared)

Each concentration culminates in a “capstone” course. Taken during the senior year, the capstone is designed to give students advanced academic and “real world” experiences by incorporating previous course work from their chosen endorsement.

Dual Credit

Dual Credit provides the opportunity for high school students to take courses that fulfill high school graduation requirements while receiving college credits. North Garland is currently offering 35 dual credit courses. These courses are normally taken at the high school and are taught by a high school teacher with the appropriate credentials, or by a college instructor. Students participating in dual credit courses realize several benefits, such as, developing a college transcript while still in high school, experiencing a college curriculum, receiving the financial benefit of free tuition, not having to attend college classes away from home, and optimizing resources provided by the college.
**Advanced Placement**

The Advanced Placement Program, sponsored by the College Board, offers college level courses at North Garland. North Garland currently offers 18 AP classes. Most American colleges and universities give credit to students who receive a 3 or better on their Advanced Placement exams.

For specific information about this program, contact your child’s academic counselor:

**SANDRA GODWIN** – A/B  
**CHRISTINE JOHNSON** – C/D/E/F  
**JACOB GARZA** – G/H/I/J  
**KAY LAWRENCE** – K/L/M  
**SALLY WOOLLY** – N/O/P/Q  
**MICHAEL DENTON** – R/S  
**CYNDE QUINN** – T/U/V/W/X/Y/Z
MST PROJECTS

In keeping with the MST program’s emphasis on application of learning, all MST students are expected to fulfill a project requirement during each school year. The project requirement is comprised of various activities that require work outside of the regular school day during both the fall and spring semesters. Project activities are intended to assist students in applying knowledge from the fields of math, science and/or technology to “real world” problem solving situations. Completion of the project may require work at home, at school, at a library, or some other location relevant to the project.

Project requirements differ for each grade level and may be adjusted from year to year. Project requirements for 2014-2015 school year are listed below as an example of the project expectations for each grade level.

FRESHMAN
- MST Day - Spring Competition
- 20 Total hours of Community Service

SOPHOMORES
- MST Day – (Spring project)
- Project Observation Hours: 1 ½ hours (See Projects Below)
- 20 Total hours of Community Service

JUNIORS
- Junior Project (see list below)
- 20 Total hours of Community Service

SENIORS
- Competitive Project (see list below)
- Capstone Course
- ePortfolio Presentation
- 20 Total hours of Community Service

Junior and Senior MST Projects (examples from the 2013-2014 school year)
MST Projects (must fill out MST Project Application):
- Robotics
- UIL Computer Science
- HOSA (skills competitions)
- National Skyscraper Competition-Architecture
- Demolitionists
- Cisco
- UIL Science
- UIL Math
- MST DAY Committee
- DECA
MST PROJECT GRADING

During each semester, students receive incremental grades and a final grade for their work on the MST project. Students receive grades during each six weeks grading period for submitting various forms of documentation. The grades received during each six weeks are averaged and counted as 20% of the 3rd and 6th grading period averages in all MST classes. It should be noted that the MST project can have a significant effect on the 3rd and 6th six weeks averages in all MST classes, and are required. Questions regarding the status of grades earned for the MST project should be directed to the MST Coordinator, Emille Baxter, at EMBaxter@garlandisd.net.
CONCENTRATIONS OF STUDY & GRADUATE ENDORSEMENT PLANS
MAJOR CONCENTRATIONS OF STUDY

MST students concentrate on a particular area of study within the MST Program. By meeting certain requirements, students can qualify for an endorsement in that particular subject area.

MST students select their concentration from the following areas:

**Multimedia Concentration**

The Multimedia Applications concentration introduces students to a wide range of courses focusing on the study of graphic design, animation, 3D modeling, video and audio production and digital communications. Students will gain proficiencies in creating productions for digital presentations and publishing, both in print and for the web.

**Potential Jobs:** Graphic Designer, Animator, 3-D Modeler, Web Designer and Video Editor

**Telecommunications Concentration**

The Telecommunications concentration covers a wide variety of computer technology from PC and Apple computer repair to networking. Students have the option of testing for CompTIA A+ Certification, Apple Certified Macintosh Technician (ACMT) and Cisco Certified Network Associate (CCNA) upon completion of this concentration.

**Potential Jobs:** Computer Technician, Apple Help Desk, Network Engineer, Installation Field Technician and IT Support Specialist

**Computer Science Concentration**

The Computer Science concentration introduces students to the field of computer software design and development. Focusing on problem solving and algorithm development, students will write computer programs in Java, which is one of the computer industry’s leading programming languages. Students will also work with computer graphics software and web design technology. Continuing to pursue this concentration in college, could lead to careers in software engineering, information technology, Web design and many other technology fields.

**Potential Jobs:** Software Engineer, Computer Systems Analyst, Computer Programmer, Database Administrator and Web Developer

**Comprehensive Science Studies Concentration**

Comprehensive Science Studies Concentration allows students interested in the physical and life sciences to obtain a broad based and thorough exposure to a full spectrum of scientific concerns and practices. This endorsement is a quantitative approach to sciences through a broad range of courses in mathematics, physical and life sciences and computer science. The program equips students with an analytical, interpretive, and explanatory skill set which enables their understanding of the scientific world.

**Potential Jobs:** Geographer, Climate Change Analyst, Meteorologist, Environmental Scientist and Surveyor
**Medical Studies (Technical/Academic) Concentration**

Medical Studies Concentrations – provides students interested in pursuing medical careers with faculty- mentored experiences in areas of individual interest combined with structured coursework to fulfill their educational needs. This curriculum develops critical thinking, skills in evaluating new data, and hands-on experience with an emphasis on scientific research methods and data. This concentration offers many insights into the medical field; many students would otherwise wait until their second or third year of college to have this type of experience.

**Potential Jobs:** Nurses, Physicians (ObGyn, Orthopedists, Cardiologists, Neurologists, Psychologists, Primary Care, Optometrists), Health Care workers (Sonographers, Rad Techs or Surgical Techs, Pharm Techs, EMT’s, Dental Hygienists, Lab Techs), Physical Therapists, Athletic trainers, Pharmacists, Physicians assistants, Nurse Practitioners

**Engineering Concentration**

The Engineering Concentration offers students the ability to learn industry standard software as well as the overarching concepts of engineering utilized by the profession. Students are introduced to prototypes through the use of a 3-D printer as well as hand-modeling techniques. Computer aided drafting is used to explore the digital interface between concept and design development. This concentration is a hands-on, project based, learning environment.

**Potential Jobs:** Civil Engineer, Aerospace Engineer, Mechanical Engineer, Chemical Engineer and Electrical Engineer

**Architecture Concentration**

The Architecture Concentration offers students the ability to learn industry standard software as well as design principles utilized by architects to design new buildings or alterations to existing buildings. Assignments, in the concentration, range from the design of small cabins to skyscrapers. Additional course work provides opportunities for students to garner skills in the presentation of their design concepts. Students will be presented with industry standard drawings and terminology. This concentration is a hands-on project based learning environment.

**Potential Jobs:** Architect, Construction Manager, Designer, Interior Designer and Project Manager

**Interdisciplinary Concentration**

**Interdisciplinary endorsements** include four MST Honors and one AP Math, Computer Science II or Science credit.

Selection of a major concentration will occur in the spring of the student’s 9th grade school year.

An early choice will allow the MST Coordinator to assist the student in the appropriate selection of courses for their desired concentration.

A choice of concentration should be made no later than the second semester of the student’s sophomore year.
DUAL CREDIT OFFERINGS
FOR THE 2014-2015 SCHOOL YEAR

Certain courses unique to the MST program have been identified as dual credit courses. Through an arrangement with Richland and El Centro Colleges, MST students have the opportunity to earn college credit in addition to earning high school graduation credits. To earn college credit through Richland or El Centro College, MST students must first complete enrollment requirements through Richland or El Centro College and then successfully complete the MST course requirements. The following MST courses will offer dual credit in 2014-2015:

<table>
<thead>
<tr>
<th>COURSE NAME</th>
<th>GRADES AVAILABLE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3319 PHYSICS</td>
<td>11-12</td>
<td>8 CREDITS</td>
</tr>
<tr>
<td>1829 MST WEB MASTERING</td>
<td>10-11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>1831 MST DIGITAL GRAPHICS &amp; ANIMATION</td>
<td>10-11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>1833 MST INDEPENDENT MEDIA APPLICATION</td>
<td>11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>1834 MST VIDEO TECHNOLOGY</td>
<td>10-11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>8671 DIGITAL &amp; INTERACTIVE MEDIA</td>
<td>11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>0439 INTRO. TO MASS COMM.</td>
<td>11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>0438 NEWS PUBLICATIONS</td>
<td>11-12</td>
<td>6 CREDITS</td>
</tr>
<tr>
<td>8653 MST INTERNETWORKING I CISCO</td>
<td>10-11-12</td>
<td>4 CREDITS</td>
</tr>
<tr>
<td>8754 MST INTERNETWORKING II CISCO</td>
<td>10-11-12</td>
<td>4 CREDITS</td>
</tr>
<tr>
<td>8701 MST COMPUTER MAINTENANCE</td>
<td>10-11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>8587 MST ARCHITECTURE &amp; ENG.</td>
<td>10-11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>8664 ADVANCED ENGINEERING</td>
<td>11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>8104 MST PATHO</td>
<td>11-12</td>
<td>2 CREDITS</td>
</tr>
<tr>
<td>8105 MST MEDICAL TERMINOLOGY</td>
<td>11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>8106 MST PHARM</td>
<td>11-12</td>
<td>3 CREDITS</td>
</tr>
<tr>
<td>8107/8471 MST-HS CLINICAL ROTATION I</td>
<td>11-12</td>
<td>2 CREDITS</td>
</tr>
<tr>
<td>8108/8471 HS CLINICAL ROTATION I</td>
<td>11-12</td>
<td>2 CREDITS</td>
</tr>
</tbody>
</table>

PLEASE VISIT OR CALL MRS. QUINN 972.675.3120 EXT. 61023 FOR ADDITIONAL DETAILS.
NORTH GARLAND HIGH SCHOOL
MATH, SCIENCE, TECHNOLOGY MAGNET
CODE OF ETHICS 2014-2015

In order to establish and maintain a strong, quality program, a Code of Ethics has been developed as guidelines for MST students. It is the desire of the North Garland High School faculty and staff to provide MST students with opportunities to excel in their academic studies, expand their knowledge of the business world, participate in field studies in the community and develop personal and leadership skills. The following rules comprise the Code of Ethics for all MST students at North Garland High School.

As a Math, Science, Technology Magnet student, I will:

- Represent NGHS and my fellow MST students in a positive manner according to the Garland ISD 2014-2015 Code of Conduct.

- Complete the curriculum for the MST program as stated in the Graduation Endorsement Plan Handbook. All MST students must take at least one MST technology course per year and maintain a 75 average in all course work by the end of each grading period. If the student receives a grade below 75, the student will be placed on probation with the expectation that the grade will be brought up to passing by the end of the next grading period. Failure of an MST class will automatically put a student’s magnet membership in jeopardy. The coordinator and principal will consider extenuating circumstances.

- Attend all HST field opportunities offered through the MST classes. Students must be in HST attire for all field experiences unless otherwise notified. If the student is not in compliance with HST attire and/or has not made prior arrangements to be excused from the trip, the student will not participate in the trip and will remain on campus in RAC, for the duration of the field experience. (**Applies strictly to HST clinical rotations**)

- Comply with school rules, school dress code or MST dress code and exhibit good taste in appearance and social behavior on campus or on field experiences. Excessive office referrals and RAC assignments will be considered on an individual basis and may result in termination from the program.

- Complete a minimum of 20 hours of community service each year. It is understood that each student will need to document their hours and turn them into the coordinator prior to the end of each school year.

- Sign and return the Code of Ethics form by Friday, October 3, 2014.

Any student placed in AEC will be withdrawn from the program immediately and upon return, will no longer receive bus transportation. Students may also be withdrawn for inappropriate use of school technology equipment, unethical or illegal activities conducted on/off campus or on any MST/school-sponsored trips.
The coordinator and/or principal have the final authority to override the code of conduct in certain circumstances. Failure to abide by these rules will result in disciplinary action, probation for non-compliance with program guidelines and/or dismissal from the program. Dismissal from the program, for any reason, is permanent.

**CODE OF ETHICS CONTRACT**

**Parent(s) and MST Student are expected to sign below and return to the MST Coordinator by October 3, 2014.**

I acknowledge that I, ___________________________ (parent/guardian) and I, ___________________________ (student) have read and understand the code of ethics for North Garland High School Math, Science and Technology Magnet. We realize that failure to abide by the rules will result in disciplinary action and/or dismissal from the MST Program.

**SIGNATURE OF**
**PARENT/GUARDIAN________________________**
My signature (as the parent) on this document represents my agreement to continually support and encourage my student to fulfill the requirements of an MST student, committing to this program for the four years of high school through graduation with an MST Endorsement.

**SIGNATURE OF**
**STUDENT________________________________________**
My signature (as the student) on this document represents my agreement to fulfill the requirements of an MST student, committing to this program for the four years of high school and to graduate with an MST Endorsement.
FOR FURTHER INFORMATION REGARDING THE NGHS MST PROGRAM, PLEASE CONTACT:

JASON JETTON, MST ADMINISTRATIVE COORDINATOR  
972.675.3120 x61002  
JBJETTON@garlandisd.net

EMILIE BAXTER, MST PROGRAM COORDINATOR  
972.675.3120 x61027  
EMBAXTER@garlandisd.net

SANDRA GODWIN, LEAD COUNSELOR  
972.675.3120 x610120  
SKGODWIN@garlandisd.net