

**2022-2023**

# McMillan Magnet Center



## 7<sup>th</sup> Grade Course Directory



**Monarchs get Ready to Roar!!!**



## **McMillan Magnet Center Math, Technology and Engineering**

### McMillan Mission and Vision

The Mission of McMillan Magnet Center is to academically challenge students and to promote student ownership of learning in a safe, diverse, and respectful environment.

The Vision of McMillan Magnet Center is to:

- Collaborate with school, family, and community-based partners.
- Provide an innovative, project-based, cross-curricular school setting.
- Integrate components of Science, Technology, Engineering, Arts, and Math through Project Lead the Way (PLTW).

This directory is designed to help you in planning a program of study that will best meet your needs and interests. Parents, teachers, and counselors will help you select and make decisions regarding courses for your student schedule.

Your directory contains complete information about course requirements and materials needed, as well as descriptions of each course being offered at McMillan. Read and study the course offerings before registering. Course choices become commitments and it is difficult to make changes. Careful consideration now will help assure you of a program that satisfies your needs and interests.

The magnet center curriculum is designed to encourage exploration in a variety of subject areas. The curriculum at McMillan Magnet Center reflects the infusion of multicultural nonsexist educational material consistent with the philosophy adopted by the Board of Education.

We hope this directory will be an effective tool in selecting your plan of study. The courses you select in middle school are most important to your future goals and endeavors.

Dr. Monica Green  
*Principal*

Mrs. Kim Langford  
*Assistant Principal*

Mr. Curtis Weber  
*Assistant Principal*

Mrs. Sarah Castanos  
*Dean of Students*

*Dr. Matthew Coffey*  
*Dean of Students*

Visit our website at <http://www.mcmillan.ops.org>

### Program Planning Worksheets

Before registration, carefully review the program of study and course descriptions in this handbook and plan a program with your counselor and parents. The sequence of required courses has been outlined on the worksheet provided on this page. You will want to add the elective courses you choose.

The example below is what a schedule could look like at McMillan:

Period	A Day	Period	B Day
1-1 1-2	ELA <ul style="list-style-type: none"> <li>• ELA 6 or Honors ELA 6</li> <li>• ELA 7 or Honors ELA 7</li> </ul> ELA 8 or Honors ELA 8	1-1 1-2	Math <ul style="list-style-type: none"> <li>• Math 6 or Advanced Math 6</li> <li>• Math 7 or Advanced Math 7</li> <li>• Math 8 or Honors Algebra 1-2</li> </ul> H Geometry 1-2 (possibly offered off site)
2-1 2-2	Science <ul style="list-style-type: none"> <li>• Science 6</li> <li>• Science 7 or Honors Science 7</li> <li>• Science 8 or</li> <li>• Honors Physical Science 1-2</li> </ul>	2-1 2-2	Social Studies <ul style="list-style-type: none"> <li>• Social Studies 6</li> <li>• Social Studies 7</li> <li>• Social Studies 8</li> </ul>
3-1 3-2	Physical Education/Human Growth Development <ul style="list-style-type: none"> <li>• PE 6</li> <li>• PE 7</li> <li>• PE 8</li> </ul> Intro to College & Careers 6,7,8	3-1 3-2	Chorus/Band/Orchestra <ul style="list-style-type: none"> <li>• Yearlong every other day</li> <li>• If not in Chorus/Band/Orchestra, then semester or yearlong elective</li> </ul>
4-1 4-2	Semester or Yearlong Elective	4-1 4-2	Semester or Yearlong Elective
Advisory	30 minutes every day	Advisory	30 minutes every day

## **ELECTIVES**

Students select elective courses to fill their remaining schedule. They may choose one of these options: 1) full year electives, 2) four semester electives, or 3) a combination of full year electives and one semester electives.

### **SEVENTH GRADE ELECTIVE COURSE DESCRIPTIONS**

#### **Honors Special Projects 7**

**Length: All year**

**Teacher Recommendation**

This course offers a wide variety of experiences that align with gifted and talented programming standards. Learning opportunities meet grade level objectives in problem-solving, critical thinking, creative thinking, inquiry, cultural proficiency, metacognition, and affective skills.

#### **Art 7**

**Length: One semester**

Throughout this course, students will experience a wide variety of artistic materials and examine the artistic communication and expression of identity by several artists, past and present. Aesthetic theories of Expressionism and Imitationalism will also be studied in depth. As they do so, they will be creating their own artwork about personal identity.

**NOTE: Enrollment in any music class requires mandatory participation in our concerts, which are held in the evening each semester in our auditorium. Additional performances may be scheduled.**

#### **Chorus 7**

**Length: One semester**

Chorus 7 is available to seventh grade students who have special interests and abilities in choral singing. Vocal skills are introduced through appropriate unison, two and three-part singing. Musical independence is encouraged through increasing emphasis on musical notation. Performance opportunities are an extension of the classroom experience.

#### **Intermediate Band 7**

**Length: All year**

**Teacher Recommendation**

**Materials Needed: Instrument**

This course is offered to seventh grade students who began instrumental music instruction in their respective elementary schools. Instrumental technique and musical understanding focus on the second volume of standard instrumental studies and appropriate band arrangements. Performance may be included as an extension of the classroom activities.

#### **Intermediate Strings 7**

**Length: All year**

**Materials Needed: Instrument**

**Teacher Recommendation**

This course is offered to seventh grade students who have successfully completed several years of study. Instrumental technique and musical understandings focus on standard string method studies and appropriate string orchestra selections. The instrumentation includes violin, viola, cello, and string bass. Students with previous instrumental experience may begin changeover instruction on the low string instruments. Performance may be included as an extension of classroom activities.

## **Jobs for America's Graduates**

## **Teacher Recommendation**

### **Length: All year**

Jobs for America's Graduates (JAG) is a graduation enhancement program focusing on personal and career development and future readiness. The class will participate in a variety of classroom activities, assignments, exploration, guest speakers, mentorship, and guidance. Each member will become part of a student leadership organization and have several opportunities to further unlock and enhance their potential. This is the middle-level experience/course that students would be enrolled into prior to high school.

## **SEVENTH GRADE MAGNET ELECTIVE COURSE DESCRIPTIONS**

### **PLTW Computer Science APP Creators**

#### **Length: One Semester**

This required 7th grade course will expose students to computer science by computationally analyzing and developing solutions to authentic problems through mobile app development and will convey the positive impact of the application of computer science to other disciplines and to society. Students will customize their experience by choosing a problem that interests them from the areas of health, environment, emergency preparedness, education, community service, and school culture. Because problems in the real world involve more than one discipline, the unit will introduce students to biomedical science concepts as they work on solutions for the specific problems they choose to tackle.

### **Music Technology 1**

#### **Length: One Semester**

#### **Prerequisite: Keyboarding**

This course is designed for students interested in music and its related computer applications. No previous experience in computers or music is necessary. Students will explore electronic musical instruments, computer-assisted instructions, MIDI sequencing and music notation.

### **Enrichment Math 1 and Enrichment Math 2**

#### **Length: One Semester each**

This course is designed to prepare 7th and 8th grade students for mathematics competitions. Offered 2nd semester, students will prepare for the MATHCOUNTS competition and a national on-line competition. The focus this semester is on problem solving and mathematical explorations. Students will work on material that supersedes any coursework available to middle school students. Students will be required to complete projects to earn credit for the course.

### **Introduction to Architecture**

#### **Length: One Semester**

This pre-engineering course is an introduction to architecture, sketching skills, and drafting tools. Students will learn about the process of architecture, different architectural styles, as well as careers associated with architecture and computer aided design. Students will create virtual three-dimensional models of homes by learning to use computer-aided design and drafting (CADD) software. Students will work together to build a scaled, physical model of a home. This course is recommended for pre-engineering (PLTW) students, or any student interested in applied mathematics and engineering.

### **PLTW Science of Technology**

#### **Length: One Semester**

This 7th grade pre-engineering course explores the science of electricity, the movement of atoms, circuit design, and sensing devices. Knowledge and skills in basic circuitry design and explore the impact of electricity in everyday life are acquired. Students study the mechanics of motion, the conversion of energy, and the use of science to improve communication.

**PLTW Flight and Space****Length: One Semester**

The exciting world of aerospace comes alive through Flight and Space. Students explore the science behind aeronautics and use their knowledge to design, build, and test an airfoil. Custom-built simulation software allows students to experience space travel.

**PLTW Medical Detectives****Length: One Semester**

Medical Detectives (MD) explores the biomedical sciences through hands-on projects and labs that require students to solve a variety of medical mysteries. Students investigate medical careers, vital signs, diagnosis, and treatment of diseases, as well as human body systems such as the nervous system. Genetic testing for hereditary diseases and DNA crime scene analysis put the students in the place of real-life medical detectives.

## Course Placement Appeals

All Secondary Omaha Public Schools offer procedures for appealing course placement (i.e., AP, Honors, IB, etc.). Each building may have specific forms and deadlines; however, the following general procedures shall apply:

**Level One:** Counselor, Curriculum Specialist, Assistant Principal/Data, or Principal

A student or parent with a course placement appeal may first discuss the matter with the counselor, or building administrator involved, with the object of resolving the matter informally.

**Level Two:** Assistant Superintendent of Curriculum, Instruction and Assessment

If the course placement appeal is not resolved at Level One and the individual still wishes to pursue the appeal, he/she may formalize the appeal in writing addressed to the Assistant Superintendent of Curriculum, Instruction and Assessment at 3215 Cuming Street, Omaha, NE 68131.

**Level Three:** Superintendent

If the appeal is not resolved at Level Two and the individual still wishes to pursue the appeal, he/she may formalize the appeal to the superintendent of schools after receiving a written response from the Assistant Superintendent of Curriculum, Instruction and Assessment.

These steps shall be taken in a timely manner to accommodate the registration of courses for the school year in question.

*Omaha Public Schools does not discriminate on the basis of race, color, national origin, religion, sex (including pregnancy), marital status, sexual orientation, disability, age, genetic information, gender identity, gender expression, citizenship status, veteran status, political affiliation or economic status in its programs, activities and employment and provides equal access to the Boy Scouts and other designated youth groups. The following individual has been designated to accept allegations regarding non-discrimination policies: Superintendent of Schools, 3215 Cuming Street, Omaha, NE 68131 (531-299-9822). The following persons have been designated to handle inquiries regarding the non-discrimination policies: Director of Equity and Diversity (equityanddiversity@ops.org), 3215 Cuming St, Omaha, NE 68131 (531-299-0307).*