

2014 -  
2015

Scotlandville Middle Pre-  
Engineering Magnet



COURSE

Directory



Scotlandville Middle Pre-Engineering Magnet Academy is a highly specialized learning community that focuses on enhancing student growth in the areas of **Science, Technology, Engineering, Art** and **Mathematics**. Our students learn in an environment that propels their creativity and talents through the various arts and electives offered. We also place strong emphasis on project based, hands-on, collaborative activities through our Project Lead the Way, and Engineering and Robotics courses. Our selection of courses allows students to matriculate through a multitude of progressive and challenging activities that promote growth throughout all subject areas while enhancing their problem solving and higher order thinking skills. Our learners are exposed to a wide variety of advanced technological activities, multimedia workshops, and accelerated curriculums that will allow them to earn High School credits during their middle school academic experience.

This directory serves as a guide to the wide array of courses being offered at Scotlandville Middle Pre-Engineering Magnet Academy for the 2014-2105 school year. Included is a listing of all the core subjects offered by grade level, then a listing of the elective courses. Parents, please carefully review all the courses offered, their requirements and any prerequisites they may have, with your student. Please contact Mrs. Stephanie McCoy in the counseling office at 225-775-0776, if you have any questions regarding courses and course requirements.

**NOTE:** Once students have selected their courses, **NO** changes will be made unless determined academically necessary by the school counselor after June 5<sup>th</sup>.

\*\*Schedule changes may not be made after the first 10 days of the semester.

\*\*Schedule changes may not be made for a teacher change.

**Further Note:** The Information in this course directory is subject to change if deemed necessary by administration or East Baton Rouge Parish School System's governing officials.

**Mailing Address:**

9147 Elmgrove Garden Drive  
Baton Rouge, LA 70807

**Phone Directory:**

|                    |                |
|--------------------|----------------|
| Main Office        | (225) 775-0776 |
| Fax Number         | (225) 775-2104 |
| Cafeteria          | (225) 775-0791 |
| Library            | (225) 774-9306 |
| EBRPSS             | (2250 922-5400 |
| EBRP Magnet Office | (225) 922-5443 |

# COURSE OFFERINGS AND DESCRIPTIONS

## 6<sup>th</sup> GRADE CORE COURSES

ENGLISH 6  
MATH 6  
PHYSICAL SCIENCE 6  
WORLD HISTORY 6

## 7<sup>th</sup> GRADE CORE COURSES

ENGLISH 7  
INTRO TO ALG 7  
LIFE SCIENCE 7  
US HISTORY 7

## 8<sup>th</sup> GRADE CORE COURSES

ENGLISH 8  
INTRO TO ALG 8  
ALGEBRA I [HS]  
EARTH SCIENCE 8  
LA HISTORY 8

## PHYSICAL EDUCATION

PHYSICAL EDUCATION

## ELECTIVES - ARTS

ART 6-8 / ART I [HS]  
FINE ARTS SURVEY [HS]  
MEDIA ARTS I [HS]  
MUSIC & TECHNOLOGY [HS]  
PIANO  
CHOIR 6-8 / CHOIR [HS]  
DANCE 6-8 / DANCE [HS]  
ORCHESTRA  
BEG BAND / INT BAND  
ADV BAND

## ELECTIVES – ENGINEERING

LEGO ARTS  
BUSINESS ENGINEERING  
PROJECT LEAD THE WAY I  
PROJECT LEAD THE WAY II  
ROBOTICS I  
ROBOTICS II  
MARINE/ADVANCED

ROBOTICS III

## ELECTIVES – ENGLISH (Required)

LITERATURE 6  
LITERATURE 7  
LITERATURE 8

## ELECTIVES- FOREIGN LANGUAGE

SPANISH I 6-8  
SPANISH I [HS]

## ELECTIVES - TECHNOLOGY

GAME DESIGN [HS]  
INTRO BUSINESS &  
COMPUTER APPLICATIONS[HS]  
KEYBOARDING

## ELECTIVES

ADVISORY  
ENVIRONMENTAL SCIENCE  
HOME ECONOMICS  
JOURNEY TO CAREERS  
LEADERSHIP  
MATH LAB

## EXCEPTIONAL SERVICES

SE LANGUAGE ARTS  
SE MATH  
SE SCIENCE  
SE SOCIAL STUDIES  
SE READING  
SE SOCIAL LIVING  
SE ADAPTIVE PE

**ENGLISH****ENGLISH 6****Grade - 6**

Content in this course covers grammar, writing and language arts learning standards geared towards sixth grade students.

**ENGLISH 7****Grade - 7**

Content in this course covers grammar, writing and language arts learning standards geared towards seventh grade students.

**ENGLISH 8****Grade - 8**

Content in this course covers grammar, writing and language arts learning standards geared towards eighth grade students.

**ENGLISH ELECTIVES****LITERATURE 6****Grade – 6**

This course focuses on improving students reading aptitude and comprehension of literature, including understanding the story elements and genres proficiently.

**LITERATURE 7****Grade - 7**

This course focuses on improving students reading aptitude and comprehension of literature, including understanding the story elements and genres proficiently.

**LITERATURE 8****Grade - 8**

This course focuses on improving students reading aptitude and comprehension of literature, including understanding the story elements and genres proficiently.

**MATH****MATH 6****Grade - 6**

This course focuses on objectives to help students develop a strong mathematical foundation and computation skills.

**INTRO TO ALGEBRA 7****Grade - 7**

Intro to the major content areas of numeration, sets, number sequences and verbal problem solving, number properties, polynomials, factoring algebraic fractions, graphing linear equations, functions and relations, and quadratics.

**INTRO TO ALGEBRA 8****Grade - 8**



present and future as an important state in the nation and integral part of the global community.

## **PHYSICAL EDUCATION**

All students taking physical education are required to pay a \$3.00 activity fee and provide a lock for their physical education locker. Students are also required to purchase and wear a Scotlandville Middle Magnet PE uniform (\$25.00).

### **PHYSICAL EDUCATION & HEALTH**

**Grades – 6, 7, 8**

In this course the student is given various tests to assess their fitness, experience, and skill levels. The results are used as a starting point for programming various activities. Periodic testing will be administered to measure growth in fitness and skill levels.

## **ENGINEERING**

### **BUSINESS ENGINEERING**

**Grade – 7, 8**

This course teaches the basics of planning and launching a business. Students learn how to create business plans and generate business ideas.

### **LEGO ARTS ROBOTICS**

**Grades – 6, 7, 8**

In this course you can build and program robots. You learn to build and program your very own intelligent LEGO robot, and make it perform loads of different operations.

### **PROJECT LEAD THE WAY I**

**Grades – 6, 7, 8**

This course is designed to help students make the critical connections between STEM principles and solving the real challenges in our communities and the world.

### **PROJECT LEAD THE WAY II**

**Grades – 7, 8**

This course is designed to help students make the critical connections between STEM principles and solving the real challenges in our communities and the world. **Prerequisite: PLTW I**

### **ROBOTICS I**

**Grades – 6, 7, 8**

The class teaches STEM concepts with project and problem-based teaching strategy utilizing LEGO Mindstorms NXT Robots and focuses on science and mathematical competency and technological literacy.

### **ROBOTICS II**

**Grades – 7, 8**

Continuing with the use of LEGO Mindstorms NXT Robots, this class offers more emphasis on data gathering. Students will perform activities as they pair their robots with Vernier sensors and conduct more rigorous science experiments. **Prerequisite: Robotics I**

**MARINE/ADVANCED ROBOTICS III****Grades – 8**

Students will develop an understanding of ocean technology by designing and building underwater remotely operated vehicles (ROV's). As a test of their design and build, the class will compete as a culminating event where they are to use their ROV's to solve ocean-related problems modeled after real-world scenarios. **Prerequisite: Robotics II**

**FOREIGN LANGUAGES****SPANISH 6-8****Grades – 6, 7, 8**

This is an introductory course in which students will learn to read, write, and speak useful expressions and everyday conversations.

**SPANISH I [HS]****Fee: \$5****Grades – 7, 8**

This course focuses on instruction in the basics of grammar and vocabulary with emphasis on listening and reading comprehension and speaking.

**VISUAL & PERFORMING ARTS****ART 6-8****Grades – 6, 7, 8**

The focus of this course is in the creating of art. Students will discover the role and function of art in the life of man, explore, examine and experience how art and design shape individuals and society.

**ART I [HS]****Lab Fee: \$20/Semester****Grades – 6, 7, 8**

Students explore visual arts elements, principles of design, and arts benchmarks through a variety of media. They develop critical thinking, productivity, and interact effectively with others through the production of art. The purpose is to develop aesthetic perception in order to extend communication through visual art works.

**BEGINNING CHOIR [HS]****Grades – 6, 7, 8**

Students develop creative expression through vocal technique and explore aesthetic perception, historical and cultural perspective, and critical analysis by performing a variety of choral literature. Students perform formal and informal concerts and prepare for continued study. Requires the purchase of a shirt, bottoms and shoes (colors determined by teacher).

**DANCE [HS]****Grades – 6, 7, 8**

Students explore dance forms (e.g., modern, jazz, ballet, contemporary, tap) applying the dance elements, principles of design, and dance benchmarks. They develop collaboration, critical thinking, and social skills. The purpose is to establish communication through performance.

**FINE ARTS SURVEY [HS]****Grades – 6, 7, 8**

Students explore the interrelationship of four arts as applied in contemporary society and their daily lives. They examine aesthetics, historical perspective,



and critical analysis in order to develop a familiarity and respect for cultural differences. They develop personal preferences by analyzing great works of art relative to the content and uses of artistic elements

**MEDIA ARTS**

**Fee: \$20**

**Grades – 6, 7, 8**

Students explore arts elements, principles of design, and arts benchmarks through a variety of traditional and digital media. They develop critical thinking, initiative, and productivity. The purpose is to develop aesthetic perception through creating digital media. They become aware of communicating through digital integration.

**MUSIC AND TECHNOLOGY [HS]**

**Grades – 6, 7, 8**

Students explore technology and computer skills related to the music industry while experiencing national music and technology standards. They refine the use of music in computer software and the internet to develop creativity, innovation, information literacy, media literacy, information, communication, and technology literacy. This course analyzes current uses of music technology to create and perform music. Students use technology to create, record, produce, and mix, distribute, and otherwise interact with music and music media.

**ORCHESTRA Fee: TBA**

**Grades – 6, 7, 8**

This class is open to all students who have instructor’s approval and pass an audition. All students in this class are required to participate in some after school rehearsals and performances. **TEACHER APPROVAL REQUIRED.**

**TECHNOLOGY**

**INTRO TO BUSINESS COMPUTER APPLICATIONS [HS]**

**Grades – 6, 7, 8**

**Lab Fee: \$15**

This course is designed to provide students with basic computer application skills. Students will be introduced, for a minimum of six weeks of the school year, to the touch method of operating a computer keyboard to produce simple business documents. Emphasis is placed on basic computer concepts both hardware and software, word processing and spreadsheet applications. Computer technology will be presented that could lead to the student’s ability to obtain certification in basic information technology.

**GAME DESIGN [HS]**

**Grades – 6, 7, 8**

Students will learn the game development process of designing the content and rules of a game in the pre-production stage and design of game play, environment, storyline, and characters during production stage.

**HUMAN SERVICES**

**LEADERSHIP**

**Grades – 6, 7, 8**

Students will learn how to organize, conduct activities or lead games or lessons for a group of peers. This course teaches students how to handle conflict, resolve problematic situations and troubleshoot responsibly. This course will help students fine tune their decision making and communication skills.

## EXCEPTIONAL STUDENT SERVICES

### **ESS LANGUAGE ARTS, MATH, SCIENCE, AND SOCIAL STUDIES**

Scheduled according to student's IEP. **Prerequisite: IEP DETERMINED**

### **AUTISM**

This is a community based class for students with Autism who qualify for Exceptional Student Services. Academic skills are based on each student's IEP. **Prerequisite: IEP DETERMINED**

### **COMMUNITY BASED**

This is a community based class for students who qualify for Exceptional Student Services. Courses are based on daily living, independent, functional and vocational skills. Academic skills are based on each student's IEP.

**Prerequisite: IEP DETERMINED**

### **SEVERE AND PROFOUND**

This is a community based class for students with severe physical or mental limitations that impede their ability to function in a regular classroom setting. Academic skills are based on each student's IEP. **Prerequisite: IEP DETERMINED**