Dear Parents and Students:

Students will have the option of earning high school credit in a variety of areas during their junior high experience. These early classes will permit them to expand their fields of study as they enter the high school by completing some basic prerequisites. The classes available for high school credit in this program of study are preceded by a course code and listed in bold. When selecting high school credit courses, a transcript will be generated and this will be the beginning of your child's high school GPA. It is important for a discussion to occur between you and your child regarding what “receiving credit” for a course means. If your student selects one of these courses, they will be taking it for credit. You and your child can decide to take the course with the pass/fail option but you must notify the school.

School Counselors,

Crystal Beres
Shannon Trexler
Lakeview Junior High
614-830-2200

Eileen McGarvey
Kris Owen
Ridgeview Junior High
614-548-1700

PROGRAM OF STUDY
2014 - 2015

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High School Semester Courses

A semester course will last two grading periods, approximately half a year. You and your child can decide to take advantage of the pass/fail option instead of a letter grade. Students in grades 7-8 taking high school classes must take the class for credit. Students in grades 7-8 taking these classes may choose the pass/fail option at any point in the course. If you do not contact the school indicating interest in the pass/fail option, your child will receive the credit, and the letter grade for the course, which will be reflected on the high school transcript.

High School Year-Long Courses

You and your child can decide to take advantage of the pass/fail option instead of a letter grade. Students in grades 7-8 taking high school classes must take the class for credit. Students in grades 7-8 taking these classes may choose the pass/fail option at any point in the course. If you do not contact the school indicating interest in the pass/fail option, your child will receive the credit, and the letter grade for the course, which will be reflected on the high school transcript.

Pass/Fail Option

Students may take any high school credited course on a pass/fail (graded as: S/U - Satisfactory/Unsatisfactory) basis. Courses eligible are 8th Grade Algebra 1, Honors Geometry, Integrated Science, Spanish 1, Spanish 2, French 1, German 1, Theatre 1, Art Appreciation, and Physical Education 9. Forms are available in the school counseling office. For more information, please see www.pickerington.k12.oh.us.

Students NOT selecting the pass/fail (S/U) option will receive a final letter grade that will calculate in their high school GPA and credit will be awarded for a passing grade. Students who decide to take the pass/fail (S/U) option will receive a final grade of an “S” or “U.” Courses that have a final grade of “S” or “U” will NOT calculate into their high school GPA and credit will still be awarded if a student receives an “S”. Since many of these courses are the foundation course to more advanced levels, passing a course with the pass/fail (S/U) option, will count as meeting one of the beginning level prerequisites.
ENGLISH

English 7
Grade 7 • Full Year
English is built around state mandated academic content standards. Within the framework of these standards, students are exposed to learning activities that enhance acquisition of vocabulary, reading, writing, research, and presentation skills. This program is designed to address individual student needs & interests through a variety of language experiences.

English 8
Grade 8 • Full Year
English 8 embodies the development of observing, thinking, listening, speaking, reading, and writing skills. This program is designed to address individual student needs.
**MATH**

As we implement the Common Core State Standards (CCSS) and new testing requirements, there will be significant changes to mathematics courses and placement procedures. The CCSS were written to provide a deeper focus, greater coherence, and increased rigor at each grade level. Writers of the CCSS and the State Department of Education advise that we use extreme caution when placing students on an accelerated track. For further information regarding the CCSS for mathematics, please reference the link http://www.corestandards.org/the-standards/mathematics.

**Math 7**  
Grade 7 • Full Year
Students will focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples.

**Advanced Math 7**  
Grade 7 • Full Year • by permission only
Students who qualify for this course will focus on the four critical areas mentioned in Math 7 and additional content from 8th grade. While coherence is retained, this course demands a faster pace for instruction and learning.

**Math 8**  
Grade 8 • Full Year
Students will focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

**8ALG1 - 8TH Grade Algebra 1**  
Grade 8 • Full Year • 1 credit • Open to qualifying 7th and 8th grade students • by permission only
The fundamental purpose of Accelerated 8th grade Algebra 1 is to formalize and extend the mathematics that students learned through the end of seventh grade. Students interested in taking Accelerated 8th Grade Algebra 1 will be required to participate in a screening process. All students who would like to be considered for Accelerated 8th Grade Algebra 1 will take the Orleans-Hanna Algebra Prognosis Test to determine Algebra readiness, and achieve a scaled score on the STAR Math universal screener that measures advanced Common Core math skills required to be successful in Algebra 1. These two nationally normed assessments show high correlation to Algebra readiness and math achievement, and provide solid, unbiased evidence of learning. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. In addition, the units will introduce methods for analyzing and using quadratic functions, including manipulating expressions for them, and solving quadratic equations. Students understand and apply the Pythagorean theorem, and use quadratic functions to model and solve problems. This course differs from high school Algebra 1 in that it contains content from 8th grade. While coherence is retained, in that it logically builds from the Accelerated 7th grade, the additional content when compared to the high school course demands a faster pace for instruction and learning.

**308H – Honors Geometry**  
Grade 8 • Full Year • 1 Credit • Pre-requisite: Algebra 1
The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving toward formal mathematical arguments. Topics include triangle congruence and similarity, trigonometry, two and three-dimensional objects, extension of Pythagorean theorem, circle theorems, theoretical and experimental probabilities. Honors-level concepts include additional constructions and probability, deriving area formulas, proving Laws of Sines and Cosines, as well as completion of a monthly contextual problem. A scientific calculator is required for Honors Geometry. The OGT calculator model TI30XIIS is recommended.
SCIENCE

Science 7
Grade 7 • Full Year
Seventh grade science consists of Life, Earth and Physical Sciences.

Life Science: Cycles of Matter and Flow of Energy – Students will learn how matter is continuously transferred between one organism to the next. Students will also learn about the different factors that affect organisms in certain biomes.

Earth Science: Cycles and Patterns of the Earth and Moon – Students will learn about the hydrological, thermal and atmospheric cycles, as well as positions of local celestial objects (Earth, Sun, Moon).

Physical Science: Conservation of Mass and Energy – Students will learn about properties of matter at the atomic level and about the conservation of energy.

Science 8
Grade 8 • Full Year
Eighth grade science consists of Life, Earth and Physical Sciences.

Life Science: Species and Reproduction – Students will learn about the diversity of species in the present day as well as in the fossil record. Students will also learn about the basics of genetics.

Earth Science: Students will learn about the composition and properties of the Earth’s interior, the movement of plates and the constructive and deconstructive geological processes.

Physical Science: Students will learn about contact and non-contact forces, as well as the different types of potential energy.

205 – Integrated Science
Grade 8 • Full Year • 1 credit • Open to qualifying 8th grade students • by permission only • Prerequisite - previous or concurrent enrollment in Algebra 1

Integrated Science is an inquiry-based laboratory course that introduces students to key concepts and theories that provide a foundation for advanced study in the physical sciences such as chemistry, physics, earth and space science. Students that are interested in taking Integrated Science will be required to take a Scientific Reasoning and Skills assessment to determine scientific readiness. Students achieving the appropriate score on the Scientific Reasoning and Skills assessment will be able to register for Integrated Science. This course differs from the high school Integrated Science in that it will also cover 8th grade Life Science and Earth Science material as well as the Integrated Science material. The course comprises the study of the physical world including developing models about classifying matter and how it changes, the particle nature of matter and atomic structure, types of chemical bonding and reactions and the conservation of matter. Energy interactions and the study of forces and motion will be emphasized. Students will also develop an understanding of the periodic table for use in explaining the chemical and physical changes developed in the course. In addition, students will be introduced to scientific theories about the origin, development and structure of the universe and the types of nuclear reactions such as those that occur within stars. Integrated Science is a high school introductory level course that fulfills the Ohio Core requirements for one year of physical science necessary for graduation.

SOCIAL STUDIES

Social Studies 7
Grade 7 • Full Year
World Studies from 750 B.C. to 1600 A.D.: Ancient Greece to the First Global Age
The seventh grade year is an integrated study of world history, beginning with ancient Greece and continuing through global exploration. All four social studies strands are used to illustrate how historic events are shaped by geographic, social, cultural, economic and political factors. Students develop their understanding of how ideas and events from the past have shaped the world today.

Social Studies 8
Grade 8 • Full Year
U.S. Studies from 1492 to 1877: Exploration through Reconstruction
The historical focus continues in the eighth grade with the study of European exploration and the early years of the United States. This study incorporates all four social studies strands into a chronologic view of the development of the United States. Students examine how historic events are shaped by geographic, social, cultural, economic and political factors.
ELECTIVES

ART

Art Survey
Grades 7, 8 • Semester
This course is designed for those students wanting to explore and experiment with a variety of 2D & 3D art media, techniques, applications and styles. Projects will be based on current trends in art, with a focus on community and student interests.

858 - Art Appreciation
Grades 7, 8 • Semester • ½ credit • Fee required
This course will focus on the Ohio Visual Art Enduring Understandings for high school visual art. No artistic skill required. Each semester will offer different challenges, so course may be repeated to earn additional ½ credit. A variety of media and design challenges will be the focus based on the following themes:

Personal Choice and Vision: Students construct and solve problems of personal relevance and interest when expressing themselves through visual art.
Critical and Creative Thinking: Students combine and apply artistic and reasoning skills to imagine, create, realize and refine artworks in conventional and innovative ways.
Authentic Application and Collaboration: Students work individually and in groups to focus ideas and create artworks that address genuine local and global community needs.
Literacy: As consumers, critics and creators, students evaluate and understand artworks and other texts produced in the media forms of the day.
FOREIGN LANGUAGE
These courses are offered for high school credit only. Careful consideration for enrollment should be discussed with your child’s counselor. French and German have limited enrollment. Therefore, you may choose Spanish as an alternate if you wish.

640 - French 1
Grade 8 ONLY • Full Year • 1 credit • This course will only be offered at the high school. Therefore, students taking it will attend class prior to the start of the Jr. High day and will be bused to the Jr. High for 1st period.
The study for French begins with strategies for learning a second language. Subsequent units introduce basic communication, grammar, writing skills, and vocabulary. Students will be introduced to French speaking communities and practices around the globe through real life, everyday activities that deal with vacations, school, family, and sports and leisure activities. Proficiency in listening, speaking, reading, and writing is developed through interaction with a variety of media such as videos, music, games, and the Internet.

650 - German 1
Grade 8 ONLY • Full Year • 1 credit • This course will only be offered at the high school. Therefore, students taking it will attend class prior to the start of the Jr. High day and will be bused to the Jr. High for 1st period.
This course is a study of the language and culture of German-speaking people. Emphasis is placed on the development of listening and speaking skills. Vocabulary and grammar are taught through conversational situations, language games and videos.

670 - Spanish 1
Grades 7, 8 • Full Year • 1 credit
This course is a study of the language and culture of Spanish-speaking people. Communication skills are stressed, along with a strong foundation in vocabulary and basic grammar structures.

672 – Spanish 2
Grade 8 • Full Year • 1 credit • Prerequisite: C or better in Spanish 1, and maintained through course completion or by permission of the instructor.
Spanish II is a continuation of Spanish I. Basic grammar and vocabulary are expanded to cover more complex concepts and students learn new verb tenses. Culture studies add to the students’ understanding of the Hispanic people. Listening, speaking, reading, and writing are stressed to improve the understanding of both the language and the people who speak it.
Health & Physical Education

Physical Education 7
Grade 7 only • Semester
This course provides each student with the opportunity to participate in a comprehensive program consisting of skill development, lead up games, team sports and physical fitness activities. The students receive instruction in rules, skills, and strategies associated with the different sports, as well as, learning experiences involving physical conditioning activities. The program promotes the spirit of cooperation, leadership, fair play, self-improvement and friendly competition. *This class is REQUIRED if student wishes to pursue high school credit at the Junior High level.

Physical Education 8
Grade 8 only • Semester
PE 8 provides an added opportunity for students to further develop and engage in various forms of movement, games, and activities, as well as, further increase knowledge of team sports concepts, and integration of fitness concepts. This class will enhance teamwork, sportsmanship and improve the basic skill levels required of various individual, team and fitness activities.

Fitness and Nutrition
Grades 7, 8 • Semester
The basic purpose of this course is to motivate students to achieve lifetime personal fitness with an emphasis on the health-related components of physical fitness. The concept of wellness, or striving to reach optimal levels of health is the main emphasis of this course. Students will design their own fitness program as a way to develop the skills necessary to become fit and achieve some degrees of fitness within the course. This course requires physical exertion similar to physical education class. Class will be in the classroom two days a week and in the gym 3 days a week. During the days in the gym you will be required to change your clothes.

Health
Grades 7, 8 • Semester • May only be taken one time while in Junior High
Health imparts general knowledge related to the various physiological systems of the human body. Emphasis is placed on substance abuse, nutrition, personality, mental health, infectious and non-infectious diseases, first aid and safety, and human sexuality.

904 - Physical Education 9
Grades 7, 8 • Semester • .25 credit • Open to qualifying 7th and 8th grade students • by permission
Prerequisite required* Must meet both of the following:
• Have an ATOS Reading score of 9.67 or higher
• Earned a B or higher in PE 7
*May only be taken ONE time in Jr. high for high school credit. Any student wishing to continue with Physical Education may sign up for PE 8. This course provides daily activities that will enhance muscular strength, muscular and cardiovascular endurance, flexibility, agility and balance. Additionally, PE 9 will provide students with knowledge and skills necessary to actively participate in a variety of sports, games and activities.
Gateway to Technology - Project Lead the Way (PLTW)

Automation and Robotics (AR)
Grade 7, 8 • Semester
Students trace the history, development, and influence of automation and robotics. They learn about mechanical systems, energy transfer, machine automation and computer control systems. Students use a robust robotics platform to design, build and program a solution to solve an existing problem. Students in this class will participate in the FAB mobile lab that will travel between both junior high schools. (See flyer on page 9)

Design and Modeling (DM)
Grade 7, 8 • Semester
In this unit, students begin to recognize the value of an engineering notebook to document and capture their ideas. They are introduced to and use the design process to solve problems and understand the influence that creative and innovative design has on our lives. Students use industry standard 3D modeling software to create a virtual image of their designs and produce a portfolio to showcase their creative solutions. Students in this class will participate in the FAB mobile lab that will travel between both junior high schools. (See flyer on page 9)

Brief Descriptions of Courses Coming in 2015-16

Energy and the Environment – Students investigate the impact of energy on our lives and the environment. Students will design and model alternative energy sources and participate in an energy expo to demonstrate energy concepts and innovative ideas.

Flight and Space – The rich history of aerospace comes alive through hands-on activities, research, and a presentation in the form of a short informational video. Students explore the science behind aeronautics and use their knowledge to design, building and test an airfoil.

Green Architecture – In a world of reduced resources and environmental challenges, it is important to present the concept of “being green” to the next generation of designers and builders. In this unit, students are introduced to architectural plans, construction styles, alternative materials and processes, dimensioning, etc.

Science of Technology – How has science affected technology throughout history? To answer this question students apply the concepts in physics, chemistry and nanotechnology to STEM activities and projects.

Medical Detectives – Students explore the biomedical sciences through hands-on projects and labs that require students to solve a variety of medical mysteries. Students will be placed in the role of “medical detectives” and participate in a variety of investigating activities related to biology and medicine.

Integrated Technology Education

Introduction to Multimedia Production
Grades 7, 8 • Semester
This introductory class introduces the student to basic computer literacy, Internet, and components of multimedia: text, graphics, animation, sound, and video, and explores how they combine to create a multimedia product across a variety of computer hardware, software, and design concepts. Emphasizes the design aspects of multimedia projects and teaches the techniques required to develop presentations, videos and web sites.

Interdisciplinary Innovations

Innovations in Applied Science 2 (2014/2015 only)
Grade 8 • Semester • Prerequisite is Innovations in Applied Science 1 • Greater emphasis is placed on the 8th grade math and science standards.
This course in an extension of the Innovations in Applied Science 1 course with a greater emphasis placed on the 8th grade math and science standards.
Want to be a part of the newest, cutting edge class in the junior high schools? Then sign up for PLTW Design & Modeling or PLTW Automation & Robotics. By registering for those classes you will have the opportunity to use the brand new Pickerington Mobile Fab Lab, that will allow you to engineer your class projects from idea to actual product.
MUSIC

Band 7
Grade 7 • Full-year
Band is a performance-based class for those students who play brass, woodwind, or percussion instruments. Enrollment in this class is open to those students who have successfully participated in band class the previous year or to those students who have permission from the director. Special attention will be placed upon proper playing fundamentals and performance techniques.

Band 8
Grade 8 • Full-year
Band is a performance-based class for those students who play brass, woodwind, or percussion instruments. Enrollment in this class is open to those students who have successfully participated in band class the previous year or to those students who have permission from the director. Special attention will be placed upon proper playing fundamentals and performance techniques.

Choir 7
Grade 7 • Full-year
7th grade Choir is a year-long course designed to solidify the basic fundamentals of singing. Singing is taught in a variety of manners to establish the strong musician. Gender specific sections may be established based on student interest. All learning is done in an ensemble setting.

Choir 8
Grade 8 • Full-year
Students will continue developing signing and ensemble skills. They will develop skills in breathing, tone quality, harmonization, and work independently or collaboratively to perform varied types and styles of music. Gender specific sections may be established based on student interest as well as a mixed ensemble offering.

Orchestra 7
Grade 7 • Full-year
Orchestra is a performance-based class for those students who play string instruments. Enrollment in this class is open to those students who have successfully participated in string class the previous year or to those students who have permission from the director. Special attention will be placed upon proper playing fundamentals and performance techniques. This ensemble would also be suitable for 8th graders with minimal string playing experience with the director’s approval.

Orchestra 8
Grade 8 • Full-year
Orchestra is a performance-based class for those students who play string instruments. Enrollment in this class is open to those students who have successfully participated in string class the previous year or to those students who have permission from the director. Special attention will be placed upon proper playing fundamentals and performance techniques. Select 7th graders may be permitted to enroll in this group with audition and approval of director.

THEATRE

Junior High Theatre Performance
Grades 7, 8 • Semester • Permission of Instructor
This course is constructed as an accelerated Theatre I. Students will develop a sophisticated use of acting skills, improvisation, pantomimes, stage makeup, stage combat, monologues, dialog, and short scenes. Instructor permits entry in this class.

560 – Theatre 1
Grades 7, 8 • Semester • 1/2 credit
Theatre is a semester class where you will get a taste of various aspects of theatre. Activities include acting, improvisations, theatre history, pantomimes, stage makeup and stage combat. We will admit monologues, dialogues, and short scenes.
## SCHEDULE WORKSHEET

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NOTES
**2014-2015 JUNIOR HIGH COURSE REQUEST**

- **Student Name**: ___________________________  _________________  last name  _________________  first name  
- **Student No.**: ___________________________  _________________  Current Grade: ___________________________

**PLEASE CHECK THE APPROPRIATE BOX FOR THE COURSES YOU WISH TO SELECT**

### CORE

**ENGLISH**
- English 7 (Y)
- English 8 (Y)

**MATH**
- Math 7 (Y)
- Math 8 (Y)

Placement in the following math classes will be contingent on appropriate scores on screening tests.

- Advanced Math 7 (Y) – BY PERMISSION ONLY
- 8AALG1 - 8th Gr. Algebra 1 (Y) – BY PERMISSION ONLY
- 308 Honors Geometry (Y) - BY PERMISSION ONLY

**SCIENCE**

Students entering seventh grade will take
- Science 7 (Y)
- Science 8 (Y)

Social Studies 7 (Y)
- 205 Integrated Science (Y) – BY PERMISSION ONLY

**SOCIAL STUDIES**

Two classes of social studies are required for junior high students
- Social Studies 7 (Y)
- Social Studies 8 (Y)

### ELECTIVES

**ART**
- Art Survey (S)
- 858 Art Appreciation (S)

**FOREIGN LANGUAGE**
- 640 French 1(Y) – 8th GRADE ONLY
- 670 Spanish 1 (Y)
- 650 German 1 (Y) – 8th GRADE ONLY
- 672 Spanish 2 (Y) 8th GRADE ONLY

**HEALTH & PHYSICAL EDUCATION**

Any 7th grade student not taking a music elective must take health or PE
- Physical Education (S)
- Fitness and Nutrition (S)
- Health (S)
- 904 Physical Education 9 (S)

**GATEWAY TO TECHNOLOGY – PROJECT LEAD THE WAY (PLTW)**

- Automation and Robotics (S)
- Design and Modeling (S)

**INTEGRATED TECHNOLOGY EDUCATION**

- Introduction to Multimedia Production (S)

**INTERDISCIPLINARY INNOVATIONS** (formerly known as STEM)

- Innovations in Applied Science 2 (S)

**MUSIC**

- Band 7 (Y)
- Band 8 (Y)
- Choir 7 (Y)
- Choir 8 (Y)
- Orchestra 7 (Y)
- Orchestra 8 (Y)

**THEATRE**

- Junior High Theatre Performance (S)
- 560 – Theatre 1 (S)

**ALTERNATE ELECTIVES**

Should a course be cancelled due to lack of student interest/enrollment or we are unable to schedule your first elective choices, please list four alternate electives in order of preference.

1. ______________________________________
2. ______________________________________
3. ______________________________________
4. ______________________________________