

# LAKE HIGHLAND

## PREPARATORY SCHOOL

### 2024-25 Middle School Curriculum Guide



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**LAKE HIGHLAND PREPARATORY SCHOOL**  
**Mission Statement**



Within an atmosphere of love, concern, and mutual respect,  
**Lake Highland Preparatory School**  
is committed to instilling Christian values,  
to inspiring patriotism, to developing future leaders,  
and to preparing students for college and lifetime learning  
through academically challenging programs and affirming  
competitive experiences.

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**Highlander Honor Code**

Each Highlander is a unique child of God whose  
actions are based upon these fundamental beliefs:

A Highlander's word is the truth.

A Highlander's work is completely his or her own.

A Highlander respects the rights, feelings, and property of others.

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## Levels of Academic Study

Students in the Middle School at Lake Highland are offered two levels of academic study: College Prep and Honors for select courses. Course placement is carefully considered for each of our students. To determine placement for each student for the upcoming school year, three aspects of performance are considered:

- 1) Prior year CTP test scores
- 2) Prior year assessment average in the respective subject
- 3) Input from prior year teacher in the respective subject, when applicable
- 4) Diagnostic appeals test, when applicable

A placement committee will begin reviewing all criteria in mid-May to determine appropriate course enrollment for each student. These placement decisions will then be sent out to families at the end of May. Once placements have been determined, families will be given the opportunity to contest a placement by submitting an online appeal form. Final appeal decisions are communicated by July 1<sup>st</sup>.

## Summer Classes: Transcript Policies

Courses which students take in the summer typically fall into two categories: enrichment classes and credit classes.

Many colleges and educational institutions offer summer enrichment programs. These programs provide opportunities to reinforce scholastic skills and begin laying foundations for new fields of study. They are usually not intended by the offering institutions to be taken for official high-school credit and are not granted credit by Lake Highland.

*All courses listed in this Curriculum Guide are subject to change, whether by addition, deletion, or modification, at the sole discretion of Lake Highland Preparatory School, Inc. Lake Highland Preparatory School, Inc. does not guarantee or warrant that all courses that are listed in this Curriculum Guide will be available or offered during any academic school year. This Curriculum Guide is provided only for information about the possible scope of courses available or offered during an academic year. It is not intended to be a representation, guarantee, or warranty that all courses listed will, in fact, be available or offered during any academic year.*

# Required Courses

Unless otherwise noted, all required courses are a full year.

## SEVENTH GRADE REQUIREMENTS

- Language Arts: English 7 or English 7 Honors
- Math: Math 7, Pre-Algebra, Pre-Algebra Honors, or Algebra I Honors\*
- Science: Earth/Space Science
- Social Studies: Civics 7
- Innovation Institute:
  - Engineering Design & Modeling or Intro to Entrepreneurship (Choice: 1 Semester)
  - Automation & Robotics or Websites and The Internet CS I (Choice: 1 Semester)

## EIGHTH GRADE REQUIREMENTS

- Language Arts: English 8 or English 8 Honors
- Math: Pre-Algebra, Algebra I\*, Algebra I Honors\*, or Geometry Honors\*
- Science: Physical Science
- Social Studies: American History 8: Civil War through the 21st Century
- Other: Life Management Skills/Fitness\* (1 Semester required for all 8th grade students)

\* Algebra I, Algebra I Honors, Geometry Honors, and LMS are high school-level courses that will be included on the student's high school transcript. High School transcript credits earned in seventh and eighth grade will not be counted toward the 22 credits required for graduation but are calculated in the student's High School GPA.

## SCHEDULING NOTES

- We cannot honor requests for specific teachers.
- We cannot honor requests for classes during specific class periods.
- We cannot change full year classes, teachers, and periods during the school year.

# Required Course Descriptions

## LANGUAGE ARTS

### SEVENTH GRADE

#### **English 7 – 1001040**

The English 7 course includes a combination of classic and high-interest literature through the study of novels, short stories, poetry, plays, graphic novels, and current events. The elements of fiction, nonfiction, historical fiction, classics, and current young adult literature are all explored through the active reading skill of annotations. In-depth grammar study enables students to employ standard English usage in both written and oral communication. Composition is practiced in the forms of narrative, persuasive, descriptive, compare and contrast, expository, creative and research. Real-world critical research skills and the writing process are used while fostering a confident attitude toward writing. Vocabulary study includes Greek and Latin roots to become familiar with etymology. English 7 students will recall, understand, and apply lessons and concepts.

-OR-

#### **English 7 Honors – 1001050**

The English 7 Honors course includes a combination of classic and high-interest literature through the study of novels, short stories, poetry, plays, graphic novels, and current events. The elements of fiction, nonfiction, historical fiction, classics, and current young adult literature are all explored through the active reading skill of annotations. In-depth grammar study enables students to employ standard English usage in both written and oral communication. Composition is practiced in the forms of narrative, persuasive, descriptive, compare and contrast, expository, creative and research. Real-world critical research skills and the writing process are used while fostering a confident attitude toward writing. Vocabulary study includes Greek and Latin roots to become familiar with etymology. English 7 Honors students will analyze, synthesize, and evaluate the lessons and concepts.

### EIGHTH GRADE

#### **English 8 – 1001070**

The English 8 course stresses the foundations of literary analysis through the study of novels, short stories, poetry, plays, and various other print sources. Grammar includes an in-depth study of sentence mechanics and syntax with a review of grammar and usage. Composition is practiced in various forms including, but not limited to, essays, letters, journals, and poems. Vocabulary is enhanced by studying word meaning, uses in context, and word parts.

-OR-

#### **English 8 Honors – 1001080**

The English 8 Honors course emphasizes the foundations of literary analysis through the study of novels, short stories, poetry, plays, and various other print sources. Grammar includes an in-depth study of sentence mechanics and syntax with a review of grammar and usage. Composition is practiced in various forms including, but not limited to, essays, letters, journals, and poems. Vocabulary is enhanced by studying word meaning, use in context, and word parts. The honors course is broader in scope and format than the English 8 course.

# **MATHEMATICS**

**Note: TI-30XS MultiView calculator is recommended**

## **SEVENTH GRADE**

### **Math 7 – 1205040**

This course is designed for seventh grade students to prepare them for future work in Pre-Algebra and high school Algebra. Topics include, but are not limited to fractions, decimals, integers, variables, ratios, proportions, percent, sets, equations, exponents, formulas, the rectangular coordinate system, and algebraic expressions.

-OR-

### **Pre-Algebra – 1205070**

This course is for students who are ready for abstract mathematical reasoning. It will prepare them for a high school-level Algebra course as an eighth grader. Topics will include, but are not limited to expressions and formulas, solving equations, properties and basic number concepts, algebraic fractions, word problems, ratio and proportion, and linear equations as well as 2- and 3-D Geometry.

-OR-

### **Pre-Algebra Honors – 1205070H**

This course is designed to prepare select seventh grade students to take an honors level high school Algebra course as an eighth grader. All material covered in Pre-Algebra is included. In addition, more complex topics, such as irrational numbers and the Pythagorean Theorem, operations with polynomials, and possible independent projects combine to offer a challenging study of Pre-Algebra.

-OR-

### **Algebra I Honors (high school credit course) – 1200320**

This course is designed to provide a rigorous, in-depth study of algebra and create a foundation for the application of these skills to other scientific and mathematical fields. Topics include but are not limited to operations and properties associated with the real number system, algebraic and graphical solutions of equalities and inequalities with one and two variables, relations and functions, direct and inverse variations, operations with rational/irrational numbers and expressions, and introductions to complex numbers, quadratic functions, probability, and counting methods. Throughout the year, problem-solving strategies and word problem applications will be emphasized. If at the end of the first grading period, a student has not attained a "B," we strongly recommend that the student transfer to Pre-Algebra Honors. *Students earning below a "C" for either semester must take Algebra I the subsequent year. Pre-requisite: 85% or higher average in Pre-Algebra Honors/comparable course OR 90% on the appeals diagnostic.*

*This is a high school level course and will appear as one credit on the student's high school transcript.*

## EIGHTH GRADE

### **Pre-Algebra – 1205070**

This course is designed to help students develop the skills necessary to be successful in Algebra I. It will review basic number theory skills and enhance critical thinking and communication of mathematical ideas and processes. Topics will include, but are not limited to using variables, simplifying algebraic expressions, properties of real numbers including an emphasis on the distributive property, exponents, proportions, probability, solving equations, and graphing linear functions.

-OR-

### **Algebra I (high school credit course) – 1200310M**

This course is designed to provide a complete and comprehensive study of Algebra. Topics include, but are not limited to, operations and properties associated with the real number system, algebraic and graphical solutions of equalities and inequalities with one and two variables, relations and functions, direct and inverse variations, operations with rational/irrational numbers and expressions, and quadratic functions, equations, and inequalities. Students earning below a “C” for either semester must retake the course in full. Students earning a “C” are strongly encouraged to repeat the course.

*This is a high school level course and will appear as one credit on the student’s high school transcript.*

-OR-

### **Algebra I Honors (high school credit course) – 1200320M**

This course is designed to provide a rigorous, in-depth study of algebra and create a foundation for the application of these skills to other scientific and mathematical fields. Topics include but are not limited to: operations and properties associated with the real number system, algebraic and graphical solutions of equalities and inequalities with one and two variables, relations and functions, direct and inverse variations, operations with rational/irrational numbers and expressions, and introductions to complex numbers, quadratic functions, probability, and counting methods. Throughout the year, problem-solving strategies and word problem applications will be emphasized. If at the end of the first grading period, a student has not attained a “B,” we strongly recommend that the student transfer to Algebra I. *Students earning below a “C” for either semester must take Algebra I the subsequent year. Pre-requisite: 85% or higher average in Pre-Algebra Honors/comparable course OR 90% on the appeals diagnostic OR LHPS Pre-Algebra teacher recommendation.*

*This is a high school level course and will appear as one credit on the student’s high school transcript.*

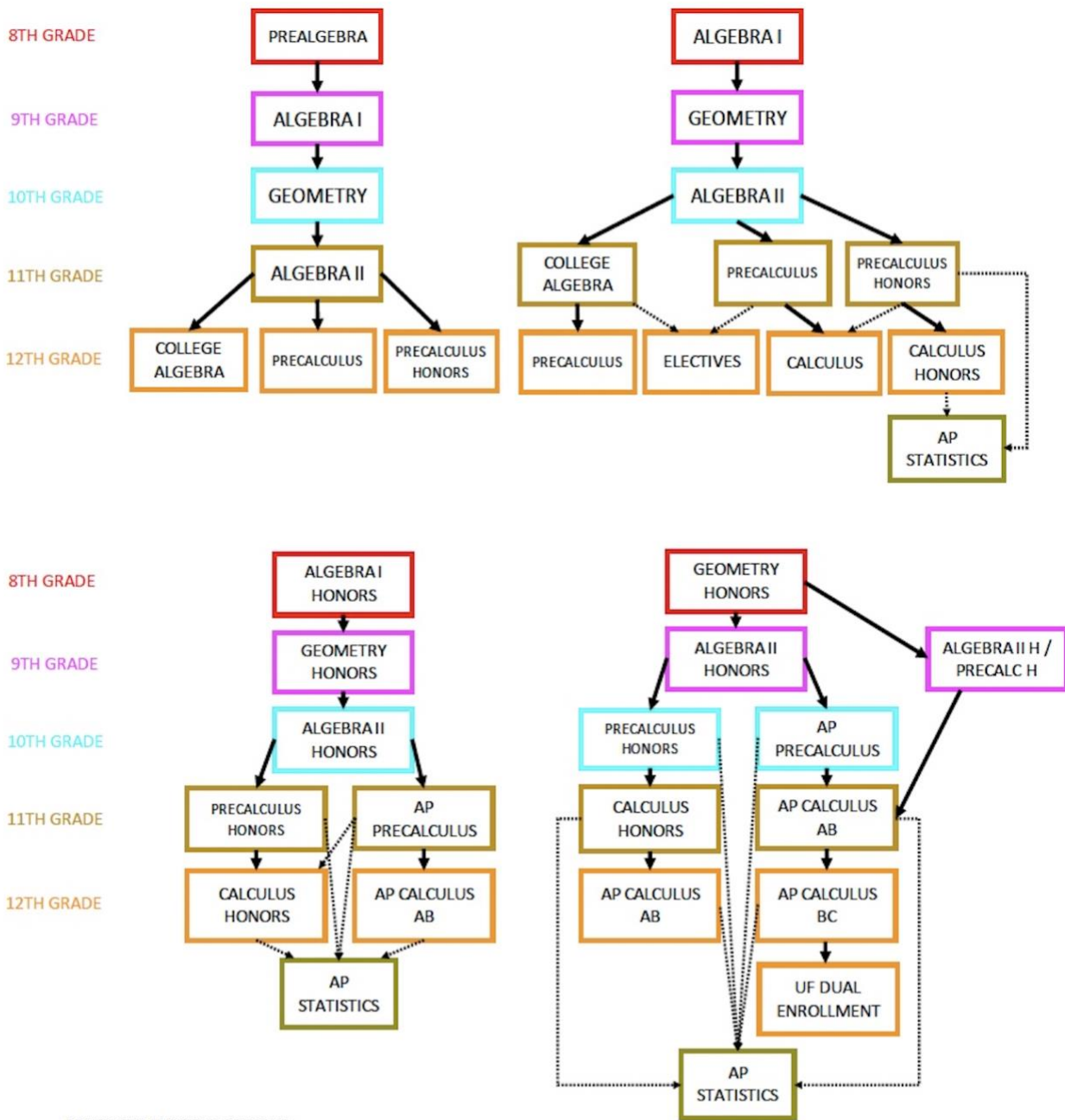
-OR-

### **Geometry Honors (high school credit course) – 1206320M**

This course is designed to provide a rigorous, in-depth study of geometry with emphasis on the methods of proof and the formal language of mathematics. Topics include, but are not limited to, the structure of geometry, logic, angle concepts, triangles, quadrilaterals, hexagons, direct and indirect proofs, perpendicularity, and parallelism in a plane and in space, similar polygons, circles and spheres, geometric constructions, area and volume, coordinate geometry, and transformational geometry. *Pre-requisite: successful completion of Algebra I Honors*

*This is a high school credit course and will appear as one credit on the student’s high school transcript.*

## MATH CONTINUUM OF COURSES (GRADES 8-12)



### SEMESTER ELECTIVE OPTIONS

(Available after completion of Algebra II. Students must complete College Algebra or Pre-Calculus to fulfill their Math core curriculum.)

- STATISTICS H
- ADV. ALGEBRA W/ FINANCIAL APPLICATIONS H

## **SCIENCE**

### **SEVENTH GRADE**

#### **Earth/Space Science – 2001010**

Earth & Space Science is designed to provide seventh grade students with an understanding of the Earth, its origin, its motions, its external and internal forces, and its relationship to other bodies in the planetary system and universe. Inquiry-based science laboratories, teacher demonstrations, and interactive multi-media explorations will enhance the student experience, support 21st century learning, and develop and refine critical thinking and problem-solving skills. Earth Science provides opportunities for students to practice communication skills involving oral, written, and multi-media presentations. Students are continually challenged to analyze and consider human impact on the Earth both locally and globally.

### **EIGHTH GRADE**

#### **Physical Science – 2003010**

The Physical Science course is divided into two semester-long units of Chemistry and Physics. The practices of science are embedded throughout the yearlong curriculum. The Chemistry semester focuses on matter and energy through units in atomic structure, chemical bonding, and chemical reactions. The Physics semester covers the interactions of matter and energy through units in electricity, magnetism, waves, force, and motion. STEM-based lab activities and engineering projects are interwoven throughout the yearlong curriculum to enhance critical thinking and problem-solving skills which emphasize the concepts of matter and energy through practical applications. This is an inquiry approach course that develops each student's organization and independent learning.

## **SOCIAL STUDIES**

### **SEVENTH GRADE**

#### **Civics 7 – 2106010**

This course is designed to provide students with the context and understanding of how humans interact with each other and with the environment over time while offering the crucial knowledge needed to create a framework for understanding the systems of society. Students will develop a moral understanding and create an appreciation of how things change while building skills in judgment and decision-making. The study of Civics will teach the complexity of the origins, structure, and functions of governments; the rights, roles, and responsibilities of ethical citizenship; the importance of law; and the skills necessary to participate in all levels of government. This highly engaging course will enhance student's ability to read varied sources and develop the skills to analyze, interpret and communicate ideas.

### **EIGHTH GRADE**

#### **American History 8: Civil War through the 21st Century – 2100010**

American History 8 is designed to instill and appreciate the triumphs, tragedies and turning points of America's past. This course is taught chronologically, beginning with the Civil War and concluding with the Vietnam Era. Students immerse themselves in primary source documents to analyze the people, events and ideas that have shaped the United States and the world. The first semester includes units on the Civil War, Reconstruction, the Gilded Age, World War I and decades of contrast (1920s/1930s). During the second semester, our young historians will study the causes and impact of World War II, the struggle for Civil Rights and conclude with an in-depth political and cultural exploration of the Cold War.

## OTHER

### **EIGHTH GRADE**

#### **Life Management Skills/Fitness – 0800300 (high school credit course)**

Designed to produce health-literate students who take positive actions for healthy and effective living, this course is wellness-oriented and emphasizes responsible decision-making and planning. Students will develop strategies for handling common issues that affect teens' mental, emotional, physical and social well-being. Topics of study include, but are not limited to, fitness education and goal setting, mindfulness and stress management, internet safety and digital wellbeing, nutrition, substance abuse, and personal health. Human sexuality, including abstinence from sexual activity and teen pregnancy prevention will be discussed. Prevention and control of disease, and healthy relationship development will also be addressed.

*This is a high school credit course and will appear as a semester credit on the student's high school transcript.*

***Due to the topics covered, this course is required for 8th graders.***

# Elective Courses

Unless otherwise noted, all courses are open to both 7<sup>th</sup> and 8<sup>th</sup> graders.

## FULL YEAR ELECTIVES

- Chorus
- Concert Band I (7<sup>th</sup> grade)
- Concert Band II (8<sup>th</sup> grade)
- MS Leadership II (prerequisite: MS Leadership I and 15 hours of service)
- Musical Theater (tryout required)
- String Orchestra I (7<sup>th</sup> grade)
- String Orchestra II (8<sup>th</sup> grade)
- World Language: French 1 (8<sup>th</sup> grade only, high school credit course)
- World Language: Latin 1 (8<sup>th</sup> grade only, high school credit course offered 1<sup>st</sup> period only)
- World Language: Chinese 1 (8<sup>th</sup> grade only, high school credit course)
- World Language: Spanish 1 (8<sup>th</sup> grade only, high school credit course)
- World Language: Middle School French
- World Language: Middle School Chinese
- World Language: Middle School Spanish
- MS Yearbook

## SEMESTER ELECTIVES

- MS Acting
- Advanced Art (8<sup>th</sup> grade only)
- Art Techniques
- Art with Circuits
- Automation and Robotics (Core Choice: 7th Grade; Optional for 8th)
- Dance Technique semester 1/Dance Technique semester 2
- Introduction to Debate
- Digital Communications
- Drawing & Painting
- Ed Resource semester 1/Ed Resource semester 2 (no credit assigned)
- Engineering Design & Modeling (Core Choice: 7th Grade; Optional for 8th)
- Imagineer Design (prerequisite: Engineering Design & Modeling)
- Intro to Entrepreneurship (Core Choice: 7th Grade; Optional for 8th)
- Entrepreneurship Lab
- MS Improv I (offered during Fall AM Primetime begins at 7:30; this course is offered Pass/Fail)
- MS Improv II (offered during Spring AM Primetime begins at 7:30; this course is offered Pass/Fail)
- Innovative Robotics (prerequisite: Automation & Robotics)
- MS Leadership I (May be taken both semesters)
- Math Lab semester 1/Math Lab semester 2 (no credit assigned)
- Medical Detectives
- MS Musical Theater Studies (1<sup>st</sup> Period 2<sup>nd</sup> Semester)
- Physical Education semester 1/Physical Education semester 2 (this course is offered Pass/Fail)
- Programming in Python CS II (prerequisite: MS Computer Science 1)
- Public Speaking
- Science Olympiad
- MS Technical Theater I & II (2<sup>nd</sup> Period 1<sup>st</sup> & 2<sup>nd</sup> Semester)
- MS Video Production
- Websites and The Internet CS I (Core Choice: 7th Grade; Optional for 8th)

# Elective Course Descriptions

## FULL YEAR ELECTIVES

### **Chorus – 1303000**

MS chorus will provide students with the opportunity to improve their vocal ability as they learn proper singing technique as well as music literacy. Students will perform a diverse repertoire of musical styles including Classical, Traditional, Multi-Cultural, Jazz, Broadway, Spirituals and Pop. Students will learn how to read music and will improve their sight-reading skills. They will participate in a variety of performances including formal concerts and off campus performances. The group will also participate in adjudicated festivals. Advanced students will have the opportunity to audition for the Florida All State Chorus and be selected for other State-wide Honors Choirs. Some after school commitment should be expected but is minimal. This class meets on the Bradshaw Campus.

### **Concert Band I & II – I: 1302000 (7th grade); II: 1302010 (8th grade)**

This performance ensemble is open to experienced band students. This course will continue to focus on all performance aspects of the band instrument including tonal production, ensemble skills, and sightreading development. There will be numerous concerts throughout the year that are required as part of the grade for this class. Concert Band members will have the option to perform with the Marching Highlanders during the football season. After-school rehearsals will be required only for the students participating as members of the Marching Highlanders. This class meets on the Bradshaw Campus.

### **MS Leadership II –2104040**

MS Student Leadership II is a yearlong course designed for students who have completed the MS Leadership I course and it's culminating digital portfolio requirement. Students will take on larger and more varied leadership roles leading service-learning projects within both the Lake Highland and Central Florida communities. Further, through in-depth study of Design Thinking principles, students will develop their abilities to: observe, empathize, analyze, design, create, iterate, and reflect. Using these skills, students will identify the problems, challenges, and needs of others, and find solutions to help them. The theme of serving others permeates every aspect of this course and will yield more well-rounded leaders ready to excel in the Upper School.

*Prerequisite: MS Leadership I students must submit a comprehensive digital portfolio and successfully complete 15 hours of service, in their 7<sup>th</sup> grade year, to gain admittance in MS Leadership II.*

### **MS Musical Theater – 0400050**

Musical Theatre is a full year performance elective that will perform a one-act musical during the fall Junior Thespian Festival and a 60-minute junior musical theatre production in the spring. Through these two opportunities, students will develop physical and vocal performance skills and learn to analyze character and story through text and song. Musical Theater meets on the Bradshaw campus during 2<sup>nd</sup> period. **Participation in the fall District 8, Junior Thespian Festival and all fall/spring after school rehearsals are mandatory.**

*After School Commitment: There are 6 after-school rehearsals in the fall and 16 after-school rehearsals in the spring semester.*

### **String Orchestra I & II – I: 1302040 (7th grade); II: 1302050 (8th grade)**

This performance ensemble is open to middle school strings students who have had at least one year of experience. Students with less than one-year experience will be admitted at the discretion of the Director. The purpose of this class is to continue to build a musical foundation, including good

sound production, musical literacy, and solo and ensemble performance skills. Students will have multiple performance opportunities throughout the year, as well as the option to represent the school while participating in Solo and Ensemble and Concert Music Performance Assessment. String Orchestra is a year-long course. Students will enroll in Level I the first year and Level II the second year. Second year students will focus on shifting, vibrato, and more advanced techniques regarding sound production. This class meets on the Bradshaw Campus.

**World Language: French I – 0701320M (8<sup>th</sup> grade only)**

The purpose of this course is to introduce students to the French language and its culture. Students also start developing communicative proficiency and cross-cultural understanding. Emphasis is placed on listening and speaking skills using a variety of activities, projects, and technology. Fundamentals in grammar and vocabulary are introduced by using the skills of writing, reading, speaking, and listening.

*This is a high school course which will appear on a student's final high school transcript. This course will not count toward the required 2 years of a world language at the Upper School but will be included for college application GPA purposes.*

**World Language Latin I – 0706300 (8<sup>th</sup> grade only)**

The purpose of this course is to enable students to comprehend the Latin language through practice in reading and speaking. Using the reading approach, students will study Roman culture and history and its relevance in their culture. Students will also increase their general language skills, particularly grammar, vocabulary, and derivatives. This study also includes the roots of modern romance languages. **This class meets on the Bradshaw Campus during 1<sup>st</sup> period.**

*This is a high school course which will appear on a student's final high school transcript. This course will not count toward the required 2 years of a world language at the Upper School but will be included for college application GPA purposes.*

**World Language: Chinese I – 0711300M (8<sup>th</sup> grade only)**

This course will introduce students to Mandarin Chinese language and the Chinese culture. Students will develop communicative proficiency as they are introduced to basic vocabulary, grammatical structures, and Chinese characters through varied hands-on learning activities. Pinyin and tones will also be emphasized. Students will explore the culture and customs of the Chinese community. Students will be able to read selections of simple Chinese books, songs and poetry. They will also be asked to write skits in Chinese characters. Approximately 300 characters will be introduced.

*This is a high school course which will appear on a student's final high school transcript. This course will not count toward the required 2 years of a world language at the Upper School but will be included for college application GPA purposes.*

**World Language: Spanish I – 0708340M (8<sup>th</sup> grade only)**

This course introduces students to the Spanish language and its culture. Students start developing communicative proficiency and cross-cultural understanding through readings, classroom presentations and hands-on activities. Using technology, the students experience the Hispanic culture and practice their emerging communicative skills. Fundamentals in grammar and vocabulary is addressed through writing, reading, speaking, and listening. This course is taught in Spanish and English to prepare students for Spanish II.

*Prerequisite: MS Spanish OR Spanish teacher recommendation*

*This is a high school course which will appear on a student's final high school transcript. This course will not count toward the required 2 years of a world language at the Upper School but will be included for college application GPA purposes.*

**World Language: Middle School French – 0701020**

Middle School French introduces students to the target language and its culture. Students will study the basic structure of the French language as well as the cultures of France and other francophone countries. Students will practice listening, speaking, reading and writing skills.

*This course can be taken by 7<sup>th</sup> or 8<sup>th</sup> grade students to fulfill their 1-year language requirement.*

**World Language: Middle School Chinese – 0707020**

This year long course introduces students to the fundamentals of the Chinese language (Mandarin) and its culture. Students will experience cross-cultural connections and learn the beginning skills in listening, speaking, reading, and writing with special emphasis on Tones.

*This course is taught in Chinese and English. This course can be taken by 7th or 8th grade students to fulfill their 1-year language requirement.*

**World Language: Middle School Spanish – 0708020**

Middle School Spanish introduces students to the target language and its culture. Using technology, students will study the basic structure of the Spanish language as well as the cultures of Spanish-speaking countries. Students will practice listening, speaking, reading, and writing skills.

*This course can be taken by 7th or 8th grade students to fulfill their 1-year language requirement.*

**MS Yearbook – 0102040**

This year long journalism class teaches the real-world skills of publishing. While creating the school's yearbook, students will develop skills in desk-top publishing, photography, copywriting, and business management. Students will also become adept in the areas of editing, proofreading, layout design, and time management. *This course will be held during first period on the Bradshaw Campus.*

**SEMESTER ELECTIVES****MS Acting – 0400040**

This fall semester elective will focus on preparing a one act play to premiere at the MS One Act Showcase. Scenes from this play will be performed at the fall Junior Thespian District 8 Festival. Students will engage in theatre exercises, acting techniques, and vocal and movement performance skills to share an ensemble driven play with various audiences. **Participation in the fall District 8, Junior Thespian Festival is mandatory.**

*This course is held on the Bradshaw Campus during 1<sup>st</sup> period and will include five after school rehearsals.*

**Advanced Art – 0101110**

In this project-oriented follow-up to Art Techniques and Drawing and Painting, students will use the skills they've already learned to tackle a variety of complex art projects that include figure drawing, advanced acrylic painting techniques, murals, and more. *This class is only open to 8<sup>th</sup> grade students who have completed both Art Techniques and Drawing and Painting.*

**Art Techniques – 0101100**

This class is a survey of 2-D and 3-D techniques and mediums, giving students a sampling of the variety of ways to create art. We'll cover not only the range of effects of pencil and paint, but also relief printmaking, ink and ink wash, pastel, collage, sculpture with polymer clay, watercolor pencil, and more. We'll also compare these methods to their digital counterparts by creating art on the iPad with Pro Create. The overall goal of this class is for each student to fall in love with at least one of these art techniques and pursue them beyond middle school.

**Art with Circuits - 0001720**

In this mix of art and electrical engineering, students explore electricity, circuits, and creativity by designing and building simple circuits using switches, transistors, resistors, LEDs, motors and more, then using them to enhance 3-D art projects. Students will design and construct their own unique, custom electronic creations, including night-lights, board games and motorized toys.

**Automation & Robotics – 0000530**

Automation & Robotics is a course in which students learn the history of automation relating to the

development of the human species. Students are introduced to the robotics revolution and artificial intelligence and the myriad of changes these will spawn in the very near future. In addition, students will learn to work together in groups as they design, build, and operate mechanical devices, simple machines, and complex gear mechanisms. After mastering these tasks in the first quarter, students will move on to programming robots to do simple tasks like following a line and more complex tasks such as dropping a ball into a bucket. Students will learn the basic concepts and interrelationship of design, mechanics, engineering, computer programming and software. Automation & Robotics will give students ample opportunity to work with their hands, learn by failing and working together to accomplish a task.

### **Dance Technique – 0300000 (semester 1) / 030000B (semester 2)**

Middle School Dance offers students the opportunity to pursue a variety of dance styles comprising the art form. In accordance with the national dance curriculum, students will be introduced to terminology, theory, history, technique, and performance. Specific cross-training skills include balance, coordination, rhythm, posture, and timing, as well as strength building and overall fitness. It is expected that students will bring a mature sense of responsibility and a positive approach to learning to each class. *This class is held on the Bradshaw Campus. This course may be taken during ONE or BOTH semesters. Students must indicate semester 1, semester 2 or both semesters*

### **Introduction to Debate – A000275**

*Lincoln-Douglas/Public Forum/Congress/ Extemporaneous*

This course is a competition-level preparatory class that will provide a background for each of the four high school competitive speech and debate events. It will focus on all the conceptual and strategic attributes that will enable students to compete on a national level in high school debate including research, case construction, rebuttal strategy, in-round storytelling, tutorials on basic philosophy, and several critiqued practice rounds and speeches. The process in which the debate team tackles each resolution from topic analysis through debate will be used in an informative and educational setting. LD/PF/Congress/EX is for any 7<sup>th</sup> or 8<sup>th</sup>-grade students who have an interest in competitive debate and/or are considering joining the LHPS Speech and Debate Team in the Upper School.

### **Digital Communications – 8600000**

This course will provide students with an opportunity to explore a variety of computer-based applications that foster digital forms of communication. Students enrolled in this course will examine their own personal brands and digital footprints to assess and determine best options for sharing their own unique stories. Some of the methods of storytelling to be covered will include, but is not limited to, social media content creation, digital marketing, comic book creation, class presentations, podcasting, and web design.

### **Drawing & Painting – 0101005**

With a focus on 2-D drawing and painting, this class will teach students how to capture the world around more confidently and capably on paper and canvas, both from observation (stuff they are looking at) and from their imagination (stuff they are not looking at). Examples of topics include the fundamentals of sketching and finishing a drawing, and specific strategies to draw natural and human-made environments like landscapes, cities, and houses; everyday stuff like cars, furniture, trees, or clothing; and fun stuff like block letters or space rockets. Students will then study color theory and learn to use acrylic paint and watercolor to add color to their work.

### **Ed Resource Class – 0000951A (semester 1) / 0000951B (semester 2) – no credit assigned**

Students that select this elective will be in a small class with other Edison students where they are able to meet with the Edison teacher and have support throughout the week. Students will review grades, upcoming assignments, or tests, and spend part of the class learning executive functioning skills. This class will allow time for students to learn strategies necessary to be successful in high school and college. Students will have the opportunity to learn strategies through their schoolwork allowing them time to complete assignments for classes. They may also use their testing accommodations during the class. *This elective is for students currently enrolled in the Edison*

*Program. This course may be taken during ONE or BOTH semesters. Students must indicate semester 1, semester 2 or both semesters*

### **Engineering Design & Modeling – 8600070**

Explore Design Thinking through the process of designing and fabricating products over several mediums and methods. Students will explore using every tool in the Build and Design Spaces; woodworking, 3D printing, laser cutting/engraving, and vinyl cutting. Throughout this process students will explore digitally using CAD and design programs such as TinkerCAD, Adobe Illustrator, iMovie, Silhouette Studio, and Bambu Studio. The class will begin with simple constructions and progress to completely designing a product in conjunction with our Entrepreneurship class for the apex of the semester, Shark Tank.

### **Imagineer Design – 8600071**

Using the skills developed in Engineering Design & Modeling, in this course, the builds will become more complex as students explore further through the Design Process designing and fabricating projects. Students will explore further using the Build Space tools as well as digital tools Fusion360, Google Sketchup, Adobe Illustrator, Silhouette Studio and Bambu Studio. The class will begin with basic constructions and progress to completely designing a product for a “client”.

*Imagineer Design is a one-semester course open to students who have successfully completed the Engineering Design & Modeling OR Intro to Entrepreneurship prerequisite.*

### **Intro to Entrepreneurship – 8600062**

Entrepreneurship is a one-semester course that guides students through the design thinking process as they explore the possibilities of creating their own start-up venture. In this introductory course students will focus on the skill sets and mindsets expected for entrepreneurs. These ideas include the importance of creativity, why entrepreneurs rely on both observations and inferences, failing forward, problem solving, teamwork, etc. Entrepreneurial dreams will be explored as students identify problems, develop business plans, and evaluate the risks and rewards of their enterprise. Design, marketing, and leadership skills will collide in a whirlwind of discovery as students learn by doing, all the while discovering their passions and solutions to meet real-world needs. The capstone of this course is an extensive and exciting Shark Tank presentation to local business leaders and entrepreneurs.

### **Entrepreneurship Lab – 8600063**

This course will provide an opportunity for students to reflect on some of their personal challenges, failures, and successes during the Introduction to Entrepreneurship class to bring fresh business ideas from concept to reality. Students will also have the unique opportunity to connect with, learn from and work alongside local entrepreneurs and business owners and apply lessons from the classroom, beyond our physical walls. Throughout this course students will focus on two long term projects. An entrepreneurial passion project focusing on an original business idea which they will then present on our own version of the LHPS Shark Tank, and a cooperative project intended to allow students to work on a real-world business concept, inspired by guest speakers and local business leaders.

*Entrepreneurship Lab is a one-semester course open to students who have successfully completed the Introduction to Entrepreneurship OR Engineering Design and Modeling prerequisite.*

### **MS Improv I (1<sup>st</sup> Semester – AM Primetime)- 0400045 – this course is offered Pass/Fail**

Explore improvisational theater through group games and exercises. Learn the basic tools, rules, and philosophy of improv through story exploration and character development. This course is held on the Bradshaw Campus at 7:30AM. *Course work is completed during the class period.*

### **MS Improv II (2<sup>nd</sup> Semester – AM Primetime)- 0400045 – this course is offered Pass/Fail**

Students must complete Improv 1 to continue with Improv 2. This course explores improvisational theater through expanded scene work found in comedic and dramatic plays. Continued story exploration and character development will develop each week from duet and ensemble acting

scenes. This course is held on the Bradshaw Campus at 7:30AM. *Course work is completed during the class period.*

### **Innovative Robotics – 0001730**

Innovative Robotics is a semester course that provides a hands-on environment for learning robotics through experience and hands-on application. Students are given the freedom to own their projects while the teachers facilitate their learning. Innovative Robotics is designed to allow students to feel comfortable with the new and sometimes complex concepts of modern robotics. Students work in teams that define, design, build and program a robot. Students further develop the basic concepts and interrelationship of design, mechanics, engineering, computer programming and software they learned in Automation & Robotics. The students also practice and improve effective communication, teamwork, and problem-solving skills. This course will help prepare students for today's world of integrated technology.

*Prerequisite: Automation & Robotics OR Robotics team member*

### **MS Leadership I – 2104041**

The Middle School Student Leadership course is designed to cultivate students' understanding of their individual leadership abilities while helping them to recognize and respect others through discussion, personal reflection, mentoring, and collaboration. As learners in this class, students will take an introspective look into personal passions, leadership styles, and leadership paths. Through service-learning opportunities and campus outreach initiatives, students will deepen their sense of pride and responsibility to and for Lake Highland as a school community. Further, this leadership opportunity encourages students to take initiative and ownership of being change-agents in their school, in their community, and in the world at large. The intended result is a cohort of students who understand how they can be productive citizens now and in the future. *This class is open to both 7th and 8th grade students and may be taken both semesters.*

### **Math Lab – 0000950A (semester 1) / 0000950B (semester 2) – no credit assigned**

This course is designed to provide students with additional assistance specifically in math content. Students will receive additional instructional support from a middle school math instructor, while working throughout the class period on reteaching and remediation in current levels of math coursework. Students will be provided the opportunity to self-pace, to meet their individual math support needs. This course will be open to students in Math 7, Pre-Algebra (non-Honors) or Algebra I (non-Honors) ONLY. No credit is assigned for this course. *This course may be taken during ONE or BOTH semesters. Students must indicate semester 1, semester 2 or both semesters*

### **Medical Detectives – 0000575**

Students play the role of real-life medical detectives as they collect and analyze medical data to diagnose disease. They solve medical mysteries through hands-on projects and labs, measure and interpret vital signs, dissect a sheep brain, investigate disease outbreaks, and explore how breakdowns within the human body can lead to dysfunction. Students will also explore, and practice various forensic techniques used in crime scene investigations. They will interpret evidence from a mock crime scene to solve a murder mystery.

### **MS Musical Theatre Studies – 0400200 (1st Period - Semester 2)**

This spring semester elective will enhance musical theatre performance skills through voice, body, and imagination. Students will explore scenes and songs throughout musical theater history. The class will prepare a musical theatre variety show at the end of the semester. *This course is held on the Bradshaw Campus during 1<sup>st</sup> period. No after school rehearsals are required.*

### **Physical Education - 1508600 (semester 1) / 1508600B (Semester 2)**

This elective Physical Education course is designed to develop students physically and mentally through individual and team sports activities in which they can participate for the rest of their lives. Students will participate and build their skill level and proficiency through activities that will include, but are not limited to, badminton, flag football, basketball, volleyball, floor hockey, soccer, and ultimate frisbee. Included will be an in-depth exploration of the rules and strategies of these sports,

and students will participate with the goal of implementing the rules and strategies learned in class. Students will focus on the role of individual contributing to a team and grapple with integration of offensive and defensive strategies while modeling appropriate social behaviors within a team or group setting. *This course may be taken during ONE or BOTH semesters. Students must indicate semester 1, semester 2 or both semesters. These courses are offered Pass/Fail.*

### **Programming in Python CS II – 0200020**

Programming in Python will continue to develop on the fundamentals developed in CS I. The primary focus will be on evolving students understanding of key computer programming concepts (variables, data structures, control structures, Boolean logic, and syntax). Students will use the Python programming language to develop effective and efficient software solutions to a variety of relevant and engaging programming challenges. Although the class will be taught in Python the fundamentals learned are applicable to all programming languages.

*Prerequisite: Websites and The Internet CS I*

### **Public Speaking – 1007000**

Public Speaking is a semester-long class dedicated to the development of public speaking and presentation skills. The students will learn about the processes of communication including both verbal and non-verbal communication. Informative, persuasive, and argumentative speeches, among others, will give students experience with various forms of speaking and will hone advanced speaking and delivery skills. Students will also learn strategies for practical, real-world and 21st century speaking scenarios, such as job interviews, podcasts, and conversations with adults. The objective of this course is to develop speaking and delivery skills that students will use in the Upper School, college, and beyond.

### **Science Olympiad – 1700100**

The Science Olympiad course is an elective offered in the fall semester for students who are passionate about the subject of science and want to compete in Science Olympiad tournaments. This semester long course will be focused on developing a collaborative classroom environment for students to explore traditional science topics ranging from biology, ecology, earth science, chemistry, anatomy, physics, geology, and mechanical engineering. Each student will be an integral member on the Science Olympiad team and will engage in scientific research, inquiry-based activities, and hands-on labs to prepare for the tournament events. ***Time commitment: Students will be expected to continue training in the spring semester one day a week after school from January to March. Students are required to attend local competitions, held on 2-3 Saturdays, throughout the school year beginning in December and ending in late March.***

### **MS Technical Theater – 0400110 (runs simultaneous with 2<sup>nd</sup> Period / 1st Semester)**

This fall semester elective will focus on stage management, costume design, prop curation, scenic study, and publicity design for the MS one act musical. Students will step into a technical role for the one act musical performance at the District 8 Jr. Thespian One Act Festival and One Act Middle School Showcase. *Tech Theater meets on the Bradshaw campus during 2<sup>nd</sup> period.*

*Participation in the fall District 8, Junior Thespian One Act Festival is mandatory.*

### **MS Technical Theater II – 0400100B (runs simultaneous with 2<sup>nd</sup> Period / 2nd Semester)**

Students will expand their stage management tools from the MS Technical Theater 1 course while supporting the MS spring musical with props, costumes, make-up design, science transition, and lighting design. *Tech Theater meets on the Bradshaw campus during 2<sup>nd</sup> period.*

*Participation in the fall District 8, Junior Thespian One Act Festival is mandatory.*

### **MS Video Production – 8600040**

Students will learn aspects of video creation in this hands-on class. Skills include camera operation, editing, special effects, titles, transitions, storyboarding, and on-camera techniques. Cooperation is essential as students participate in collaborative, project-based learning with the goal of a polished, finished product. Students will produce a weekly middle school news cast as well as video projects as assigned. *Enrollment is limited for this course due to the resources needed in class.*

### **Websites and The Internet CS I – 0200010**

Step into the fascinating world of web design and development! In this hands-on project-based course, students will grasp the basics of designing and programming websites using HTML while exploring the inner workings of the internet. We will utilize the design process to conceptualize, design, program, deploy, and deliver multiple websites throughout the semester. In addition, students will develop and strengthen general computer skills which will help them become better users of technology in all aspects of their lives.

### **LHPS E-COURSES**

LHPS eCourses are designed and developed by Lake Highland faculty to provide a rigorous, mission-driven learning experience. LHPS eCourses will align with the on-campus school calendar (i.e. courses will be on break at the same time as on-campus classes). eCourses are delivered through Canvas in a weekly module format and will include video lessons, assigned readings, collaborative activities, individual tasks, and various assessments. LHPS eCourses may include synchronous video sessions between students and teachers, but classes will not meet daily. Students are expected to spend 3-5 hours each week working on course activities. Students are encouraged to work on their assignments during PRIME time either before or after school.

**Online courses are scheduled as an overload to a student's on-campus schedule. These courses WILL be counted in a student's middle school GPA for Honor Roll and President's List purposes. eCourses must be registered for on the MS Curriculum Night website.**

*You are permitted to enroll in one eLearning course per semester.* Students will be allowed to drop or add an eCourse to their schedule only during the designated drop/add period. Students who fall behind during the first two weeks of the term may be automatically dropped from their course due to inactivity. Courses dropped after the Add/Drop period may occur only in special circumstances and would require approval from the student's academic counselor and the Online Learning Coordinator. Courses dropped after the quarter has ended are recorded on the transcript as Withdrawal Passing (WP) or Withdrawal Failing (WF).

### **Spring Course Offerings**

- PSAT 8/9 Prep (7<sup>th</sup> Grade Only)

### **PSAT 8/9 Prep – 7<sup>th</sup> grade only – 0000800E**

The PSAT 8-9 Prep Course is designed for current 7th graders. The information learned in this course will help you apply standardized testing strategies as you prepare for the PSAT 8/9 test in the fall of your 8th grade year. Students will end the summer with a "toolkit" of material that they can study and review prior to their PSAT test in October. These reading, math, and general testing strategies can also be applied to future standardized tests, like the SAT and ACT.

## 2028 LHPS Graduation Requirements

<b>Language Arts (4 credits required)</b>	4.0
English 9, 10, 11, 12	
<b>Mathematics (4 credits required)</b>	
Algebra I	1.0
Geometry	1.0
Algebra II	1.0
College Algebra or Precalculus	1.0
<b>Science (4 credits required)</b>	
Biology	1.0
Chemistry	1.0
Two additional Science credits	2.0
<b>Social Studies (3 credits required)</b>	
Modern World History	1.0
United States History	1.0
United States Government	0.5
One additional Social Studies credit	0.5
<b>Innovation and Technology (0.5 credit required in grades 9-12)</b>	0.5
Any one semester Innovation and Technology course	
<b>Physical Education (0.5 credit required in grades 9-12)</b>	0.5
Any one semester Physical Education course	
<b>Performing and Fine Arts (0.5 credit required in grades 9-12)</b>	0.5
Any one semester Performing and Fine Arts course	
<b>Freshman Seminar (0.5 credit required in grades 9-12)</b>	0.5
Health and Wellness Education	
Academic Writing	
<b>World Languages (2 credits required: 3 or more recommended)</b>	2.0
Two consecutive years of a World Language during grades 9-12	
<b>Electives</b>	3.0
<b>Total Credits</b>	<b>22.0</b>

