

2026-2027

Directions: CIRCLE or LIST the course you will be taking in each separate box.

Parent Signature: _____

9th Grade Advanced Placement Application and Contract

Student Name: _____ Grade Next Year: 9

9 th Grade	I am applying for the following course(s):
AP Computer Science Principles*	
AP United States History*	

****Incoming 9th grade students wanting to take AP United States History must have and maintain at least a 3.75 GPA overall and be enrolled in either Algebra, French, or Spanish in 8th grade for high school credit. Students wanting to take AP Computer Science Principles must have and maintain at least a 3.75 GPA overall and be enrolled in Algebra in 8th grade for high school credit.***

- Students must understand that they are applying for a college level course which will require much more time and effort than a typical high school course. Expect homework every night.
- Some AP courses will require summer assignments.
- Students are not allowed to drop an AP class. Students registering for AP courses are making a commitment for the year-long AP class, and understand that regular, ongoing attendance in that course is required for the entire school year.
- Students will be held to strict standards of academic honesty.
- Students are required to take the Advanced Placement Test. Exam registration is in the fall.
- Please complete and return this application with your scheduling sheet to your teacher. A signature is required from your counselor.

By signing this form, I am certifying that we have read, understand, and agree to abide by all of the tenets of the Carlson High School Advanced Placement Application and Contract.

Student Signature

Parent Signature

Date

To be completed by your Shumate Counselor before you turn it in:

Is the student taking a course in 8th grade for HS credit? ☐ Yes, Algebra ☐ Yes, Spanish/French ☐ No

Cumulative Grade Point Average: _____

Counselor Signature

Date

Freshman Course Descriptions

TO PARENTS AND STUDENTS

Since our courses are designed to help students reach their ultimate professional goals, the selection of appropriate courses may have a profound influence on career choices. Please read the enclosed course requirements and descriptions carefully before selecting courses.

Students should consider their schoolwork as their job and strive to prevent anything from interfering with doing it well. Outside work responsibilities may be commendable and/or necessary, but infringement upon study time should be minimized.

GRADUATION REQUIREMENTS

Students need 23 out of 24 possible credits to graduate from Carlson High School.

The Class of 2016 and later must fulfill the requirements of the Michigan Merit Curriculum (MMC). The following are required courses for the MMC and should be taken into consideration each year when scheduling.

COURSES	CREDIT REQUIREMENTS
MATHEMATICS	4
Algebra 1	1
Geometry	1
Algebra II/Trigonometry	1
Math or Math Related Course	1
ENGLISH LANGUAGE ARTS	4
English 9	1
English 10	1
English 11	1
English 12	1
SCIENCE	3
Biology	1
Chemistry or Physics	1
Additional Science Credit	1
SOCIAL STUDIES	3
World History and Geography	1
U.S. History and Geography	1
Civics	0.5
Economics	0.5
Personal Finance	0.5
PHYSICAL EDUCATION	1
Physical Education	0.5
Health	0.5
VISUAL/PERFORMING/APPLIED ART	1
ONLINE LEARNING EXPERIENCE	embedded
FOREIGN LANGUAGE	2 years (or 1 year plus VPAA)

Freshman Course Descriptions

ENGLISH LANGUAGE ARTS DEPARTMENT

ENGLISH LANGUAGE ARTS 9

1 CREDIT

COURSE NUMBER: ENG 101-102

GRADE LEVEL: 9

2 SEMESTERS

PATHWAY: All

The goal for English Language Arts Grade 9 is to build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. In English Language Arts Grade 9, students will be introduced to the various genre of classic and contemporary narrative and informational texts that will be read and analyzed throughout high school. Ninth graders will connect with and respond to texts by analyzing relationships within and across families, communities, societies, governments, and economies. Through the lens of Inter-Relationships and Self-Reliance, they will consider how they build relationships, how their relationships impact others, and their responsibility to society.

MATH DEPARTMENT

ALGEBRA I

1 CREDIT

COURSE NUMBER: MTH 101-102

GRADE LEVEL: 9

2 SEMESTERS

PATHWAY: All

PREREQUISITES: None

Throughout the Algebra I course, students will take a look at the basic principles used in mathematics. Some of the topics that will be covered include: properties of multiplication, division, addition, subtraction, and exponents; solving systems of equations and inequalities; and graphing lines and curves. The class will include many examples of real-life situations in order to answer the question, "When will I ever use this?" Students use skills from Algebra I every day without realizing it. The goal is to encourage students to continue to use formulas in order to simplify real-life situations. The grade students will receive in this class will be comprised of daily homework assignments, quizzes, and test scores. Students should expect homework on a daily basis with quizzes over the material at least once a week. A calculator will prove to be very useful for students, but is not required. Some calculators will be available to students during class time, but they may need them to complete homework at home. After completion of the Algebra I course, students should be prepared to move on to Geometry and Algebra II. Students should also have mastered skills essential to receive a passing score on the MME exam.

GEOMETRY

1 CREDIT

COURSE NUMBER: MTH201- 202

GRADE LEVEL: 9-10

2 SEMESTERS

PATHWAY: All

PREREQUISITES: Algebra I (MTH 101-102)

The following topics will be covered in this class: patterns, points, lines, planes, segments, reasoning and proofs, perpendicular and parallel lines, triangles, perimeter, properties of triangles, quadrilaterals, transformations, similarity, right triangles and trigonometry, circles, area of polygons and circles, surface area and volume, and an i probability and statistics. The book used in this course closely follows the basic concepts of Euclidean Geometry and emphasizes using algebraic techniques. The aim of the course is to teach the Geometry concepts for use in following courses and real life applications, and in addition, introduce students to the fundamentals of probability and statistics which has increasingly become a popular topic assessed on standardized tests. Assessments will be in the form of question/answer, quizzes, projects, and written evaluations.

ADVANCED GEOMETRY

1 CREDIT

COURSE NUMBER: MTH 205-206

GRADE LEVEL: 9-10

2 SEMESTERS

PATHWAY: All

PREREQUISITES: Algebra I (MTH 101-102)

This course will follow Michigan Merit Curriculum and CCSS that have already been adopted; Students will engage in deeper discussion and higher level math activities. Teacher approval will be necessary for admission into this course.

Freshman Course Descriptions

SCIENCE DEPARTMENT

EARTH SCIENCE
GRADE LEVEL: 9

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SCI 103-104
PATHWAY: All

In this course, students will utilize scientific practices to discover knowledge and overarching concepts related to Earth and space science. Students will recognize unifying themes that integrate the major topics of Earth and space science including Earth and its place in the universe, the solar system, plate tectonics, and physical geology. The curriculum integrates critical thinking and laboratory skills that stress the development of experimental design, detailed observation, accurate recording, data interpretation, and analysis. In the second semester,, students will utilize scientific practices to discover knowledge and overarching concepts related to Earth and space science. Students will recognize unifying themes that integrate the major topics of Earth and space science including weather, climate, water, ocean circulation and topography, natural resources, and global sustainability. The curriculum integrates critical thinking and laboratory skills that stress the development of experimental design, detailed observation, accurate recording, data interpretation, and analysis.

SOCIAL STUDIES DEPARTMENT

U.S. HISTORY & GEOGRAPHY
GRADE LEVEL: 9
PREREQUISITES: None

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SOC 201-202
PATHWAY: All

According to the Michigan High School Social Studies Course Expectations, the "disciplined study of history and geography is vital and essential for citizens in a democratic society such as the United States." As such, student in U.S. History and Geography "will learn about the American experience over time and space. They will encounter powerful and sometimes conflicting ideas while learning about people and events in different places and times. They will investigate our diverse and common traditions, and work to understand the complex interactions among various environmental, human, and social forces that have influenced and continues to influence America and Americans. Studying United States History and Geography connects us to people and events across time and space, illuminating the range and depth of human experience on grand as well as local scales. It involves an analytical study of the nation's political ideals, or times and places where people or events challenged, violated, or expanded those ideas." U.S. History and Geography begins with an overview of the foundational issues learned by students in middle school, then explores four major eras leading to the present day: The Development of an Industrial, Urban and Global United States, 1870-1930, The Great Depression and World War II, 1920-1945, Postwar United States, 1945 -1989, and America in a New Global Age, 1989 to the present. Assessment will be based on class discussions, activities, homework assignments, tests, and quizzes.

ADVANCED PLACEMENT (AP)
U.S. HISTORY (APUSH)*
GRADE LEVEL: 9 -12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: SOC 501-502
PATHWAY: All

PREREQUISITES: 3.75 GPA, HS credit in 8th grade of Algebra, Spanish, French and signed AP Contract** APUSH will be taught as an introductory-level college survey of U.S. History from the pre-Columbian civilizations to the present day. The material will be approached thematically with the intent of giving students a strong understanding of major events, trends, individuals, and groups in U.S. History. The course will center on a core textbook, the AP course outline, and many additional supplemental readings, including primary and secondary source documents. Additional mediums such as film, music, etc. will be employed. Students will be engaged in much interpretive analysis and critical thinking, discussion, and writing. Other emphases will be on the interrelationships of ESPI (Economic-Social-Political-Intellectual) developments in history, cause-and-effect relationships, and drawing parallels between past and current events. Assessments will be designed to test students' understanding of the material, their ability to defend their interpretation of the facts, and will mimic and therefore help prepare students for the AP Exam. Students will write many short essays in practice for the writing portion (particularly the Document-Based Question) of the AP Exam. Students can earn college credit for the course through the AP U.S. History Exam administered in May. *Students will be required to take the AP Exam.*

Freshman Course Descriptions

PHYSICAL EDUCATION DEPARTMENT

LIFETIME FITNESS

GRADE LEVEL: 9-10

PREREQUISITES: None

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 101

PATHWAY: All

During this semester course students will learn introductory skills in both aerobic and anaerobic fitness. Students will also participate in several lifelong sports with emphasis on skill development, teamwork, and strategy.

HEALTH

GRADE LEVEL: 9-10

PREREQUISITES: None

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 103

PATHWAY: All

This class is required for ninth and tenth grade students. Units covered include: Conflict resolution, violence prevention, drug use and abuse, nutrition, mental illness, and the Michigan Model for healthy relationships including HIV/AIDs and STD education. In accordance with the law, parents have the choice to opt their son/daughter out of any unit with sexual information. This class involves homework, projects, quizzes and tests.

Freshman Course Descriptions

Elective courses available to 9th grade students 2026-2027

ART DEPARTMENT

INTRODUCTION TO ART

GRADE LEVEL: 9-12

PREREQUISITES: None

Do you have an interest in the arts, but don't know where to start? In Introduction to Arts, students will explore several topics on an introductory level within the visual arts. Topics include calligraphy, drawing, color theory, painting, ceramics, art careers and art history. Students taking this class will be guided through several artistic processes, as they gain the opportunity to try their hand at various art media (or art supplies) and techniques, as well as researching and finding inspiration in artist artwork. Students do not need any artistic experience upon entering this class. This could be a good place to start if you haven't taken much art in the past few years.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: ART 101

PATHWAY: All

DRAWING AND PAINTING I

GRADE LEVEL: 9-12

PREREQUISITES: None

This is an introductory course designed to provide students with a working knowledge of two-dimensional visual art. The objectives of this class will focus on developing the students' techniques in drawing, painting, and various other art forms. Students will study the arts through production, art criticism, art history, aesthetics, and art careers. This class is required before any further two-dimensional art classes may be taken (Drawing II or Painting II).

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: ART 102

PATHWAY: All

CERAMICS AND SCULPTURE I

GRADE LEVEL: 9-12

PREREQUISITES: None

This is an introductory course designed to provide students with a working knowledge of three-dimensional visual art. This class will focus on developing the students' three dimensional thinking skills. Students will use a variety of art media and projects, which may include pottery, ceramic sculpture, paper mache sculpture, working with metal, and found objects. Students will explore various ideas and topics through his/her art. Students will study the arts through production, art history, art careers, aesthetics and art criticism. This class is required before any further three dimensional classes (Ceramics II or Sculpture II) may be taken.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: ART 103

PATHWAY: All

CARTOONING, 2D ANIMATION AND

CHARACTER DESIGN

GRADE LEVEL: 9-12

PREREQUISITES: None

This class teaches the foundational concepts of cartooning, animation and character design. In this class, students make art projects such as a flipbook, comic strips, use iPads to create a stop motion animation film, create drawings of original characters, and create a clay character sculpture. Students should expect to do quite a bit of drawing in this class, and be ready to devote time and attention to detail to projects. All levels are welcome in this course.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: ART 200

PATHWAY: All

CERAMICS II

GRADE LEVEL: 9-12

PREREQUISITES: Ceramics and Sculpture I: An Introductory Art Course

This course is structured for the emerging artist who has already taken Ceramics & Sculpture I. Students will be asked to develop their skills and begin on more challenging ceramics. Students will be expected to explore the ceramic medium in more depth than in the Ceramics & Sculpture I. All projects will use clay. Students will make pottery, relief sculptures, and sculptures in the round.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: ART 614

PATHWAY: AC/EMI

PAINTING II

GRADE LEVEL: 9-12

PREREQUISITES: Drawing and Painting I: An Introductory Art Course

This course is structured for the emerging artist what has already taken Drawing & Painting I. Students will learn more advanced painting techniques and use them to develop their own abilities. This class will focus on painting techniques, how to correctly mix colors,, and various approaches to painting. The history of these art forms will be examined to enrich the knowledge of the students.

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: ART 612

PATHWAY: AC/EMI

Freshman Course Descriptions

BUSINESS DEPARTMENT

**MICROSOFT APPLICATIONS &
CERTIFICATION**
GRADE LEVEL: 9-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: BUS 101
PATHWAY: All

This course covers essential computer concepts, Microsoft PowerPoint, Word, Publisher, Excel, and Access. It is offered to all students and recommended for all students to better prepare themselves for attending college or entering the workforce. Students will also have an opportunity to be certified in various Microsoft applications.

MARKETING & ECONOMICS
GRADE LEVEL: 9-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: BUS 201
PATHWAY: All

Marketing is everywhere! And through this course students will discover how marketing relates to everyday life and learn techniques that enable them to be smarter consumers. Through various activities and projects students will learn about the fundamentals of marketing, selling process, promotional mix, careers in marketing, economics as it relates to marketing, international business, entrepreneurship, and elements of a marketing plan. Students may also have an opportunity to participate in field trips that relate concepts learned in class to the real world. Marketing & Economics is recommended for all students that want to be more knowledgeable and aware of the environment in which they live and work.

MARKETING & PROMOTION
GRADE LEVEL: 9-12

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: BUS 202
PATHWAY: All

Marketing & Promotion reinforces concepts learned in Marketing & Economics, and focuses more closely on entrepreneurship and product service planning. Students will learn the steps involved with developing products, as well as branding, packaging, and labeling. Other areas of study include pricing strategies and planning, distribution, inventory control, and financial management. Some projects related to this course include designing a product, creating and testing product packaging through an egg drop competition, completing a distribution obstacle course, writing a business plan, and other fun activities. Students may also have an opportunity to participate in field trips that relate concepts learned in class to the real world.

SPORTS OFFICIATING
GRADE LEVEL: 9-12
PREREQUISITES: None

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: BUS 215
PATHWAY: BT/EMI

This course will focus on students learning the basic principles of officiating. The primary goal for the class will include students being a registered official in one sport with the Michigan High School Athletic Association. Additional skills will include students to develop their personal philosophy of officiating, understanding finances, and expenses and finances involved with officiating, scheduling games, mechanics (both sport specific and general), and conflict resolution. Activities will include guest speakers of officials and assignors of a variety of sports at all levels of competition (high school, college, and professional levels).

DIGITAL IMAGE EDITING
GRADE LEVEL: 9-12
PREREQUISITES: None

0.5 CREDIT
1 SEMESTER

COURSE NUMBER: BUS 612
PATHWAY: BT/EMI

In Photoshop / Image Editing students will learn how to manipulate images, both existing and new. Photoshop CC will be used to allow creation, manipulation and enhancement of digital images and composites. Students interested in graphic design would benefit from this course.

ENGLISH DEPARTMENT

JOURNALISM AND YEARBOOK I
GRADE LEVEL: 9-12

1 CREDIT
2 SEMESTERS

COURSE NUMBER: ENG 611-2
PATHWAY: All

Yearbook 1 is an introductory course designed for students new to yearbook production and journalism. Students will learn the fundamentals of photography, design, and journalistic writing while contributing to the creation of the yearbook. Successful completion prepares students for leadership opportunities in Yearbook 2. This is an academic elective with academic expectations. Students are expected to complete their assigned activities and projects in a timely fashion and to the best of their ability. All assignments are relevant to learning the different aspects of the publishing process. Skills learned are vital to the creation of a contemporary, journalistically-sound yearbook.

Freshman Course Descriptions

SCIENCE DEPARTMENT

STEMENGINEERING

GRADE LEVEL: 9-12

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: SCI 615

PATHWAY: EMI

Stemengineering is a course that integrates science, technology, engineering, and mathematics into a blended learning approach based on real-world applications. STEM encompasses the process of critical thinking, analysis, and collaboration in which students integrate the processes and concepts in real world contexts. Students will experiment with the following systems: computer programming, product engineering, the engineering design process, applied chemistry, and content area reading and writing by completing open ended projects.

PHYSICAL EDUCATION DEPARTMENT

TEAM SPORTS

GRADE LEVEL: 10-12

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: HPE 611

PATHWAY: All

PREREQUISITES: Ninth Grade Physical Education (HPE101 or 111)

This class is designed for students who would like to maintain their current level of Physical Fitness, with a special emphasis on stress reduction and lifetime sports. Students will also learn the benefits of teamwork and communication by working together in various team sports.

FOREIGN LANGUAGE DEPARTMENT

SPANISH I

GRADE LEVEL: 9-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: SPN 101-102

PATHWAY: All

Spanish I is designed to introduce and familiarize students with the Spanish language and the culture of Spanish speaking nations. Students also practice comprehension, speaking, reading and writing while developing a thorough vocabulary.

SPANISH II

GRADE LEVEL: 9-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: SPN 201-202

PATHWAY: All

PREREQUISITES: Spanish I

Spanish II is an intermediate study of the Spanish language and its culture. Spanish II is designed to improve upon the conversational skills and comprehension skills of the student. Simple literature is studied as well as grammar and writing necessary for fluency in the language.

SPANISH III

GRADE LEVEL: 10-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: SPN 301-302

PATHWAY: All

PREREQUISITES: Spanish II (SPN 201-202, C or better recommended)

Spanish III is an advanced in-depth exploration of the Spanish language. Students are introduced to the imperfect, future, and conditional tense, and explore more in depth the preterite tense. Students are required to make oral presentations, create written reports, and read authentic literature in the target language.

FRENCH I

GRADE LEVEL: 9-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: FRE 101-102

PATHWAY: All

French I is an introduction to the study of the French. The course content will include the study of basic grammatical forms, as well as the typical language acquisitions such as: objects, numbers, family, time, days, months, weather etc. The goal is for the student to feel confident using French. The student will acquire listening, speaking, reading and writing skills through an integrated approach involving a wide variety of activities: group/pair work, video, audio recordings, and dialogs. The course also includes a strong focus on the life and culture of the French-speaking countries.

FRENCH II

GRADE LEVEL: 9-12

1 CREDIT

2 SEMESTERS

COURSE NUMBER: FRE 201-202

PATHWAY: All

French II is a course that further develops the four language skills through an in-depth analysis of grammar and oral communication at an academic level. Francophone cultures will be explored through various classroom activities. Students will be required to use French in their daily interactions in class with the teacher and other students. Vocabulary groups: individual sports and after-school activities, celebrations, food and food and cooking, school places and events, daily routine, childhood activities, nature and animals, health, movies and books, televisions shows and music, vacation. Grammar topics: Complete review of French I topics; study of all present tense verbs (regular, irregular, stem-changing, reflexive), study of the past tenses and their usage; commands, future and conditional tenses; usage of reflexive, direct object, indirect object pronoun, and all other object pronouns.

Freshman Course Descriptions

MATH DEPARTMENT

AP COMPUTER SCIENCE PRINCIPLES

GRADE LEVEL: 9-12

PREREQUISITES: Algebra 1

1 CREDIT

2 SEMESTERS

COURSE NUMBER: MTH 541-542

PATHWAY: All

AP Computer Science Principles offers a multidisciplinary approach to the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

MUSIC DEPARTMENT

MUSIC APPRECIATION

GRADE LEVEL: 9-12

PREREQUISITES: None

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: MUS 631

PATHWAY: All

Students will perform different "experiments" using all the various elements of music. Grades will be based off of class assignments, written reports, presentations and class projects.

MARCHING BAND

GRADE LEVEL: 9-12

PREREQUISITES: Audition with Director or SMS music program completion

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: MUS 621

PATHWAY: All

The Carlson High School Marching Marauder Band is a high energy, high achievement performance ensemble! The Marching Marauders serve as the flagship musical ensemble for Carlson High School and the Gibraltar School District. Students will gain skills in leadership, personal responsibility, physical fitness, musical ability, time management, communication both interpersonal and artistic; team dynamics, and sportsmanship.

Members are expected to perform at all home football games, various marching competitions and special performances throughout the fall trimester. Members are also expected to attend all extra-curricular rehearsals – (Tuesday and Thursdays 6-9PM) and including Saturdays during the fall trimester. A schedule will be put forth in early May, preceding the season. Participation in BAND CAMP is required by all participants.

*Placement in the Drum-Line and/or Color Guard is by audition only in the late spring or early summer.

CONCERT BAND

GRADE LEVEL: 9-12

PREREQUISITES: Director Approval or SMS music program completion

0.5 CREDIT

1 SEMESTER

COURSE NUMBER: MUS 622

PATHWAY: All

This is a concert instrumental ensemble open to all grade levels without an audition. Students in this ensemble will work on instrumental technique fundamentals; music performance, music theory, and teamwork. There are 4 required performances outside of the normal school day. Grades are based off of class participation, playing tests, individual classwork and performance attendance.

CONCERT CHOIR

GRADE LEVEL: 9-12

PREREQUISITES: None

1 CREDIT

2 SEMESTERS

COURSE NUMBER: MUS 601-602

PATHWAY: All

Open to all Carlson students, this non-auditioned choir reviews the basics of music theory, vocal production, expression, style, harmony and group (choral) singing in three and four-part format. Skills required in homophonic as well as polyphonic music are introduced. Repertoire includes folk music from a variety of cultures, holiday music, pop and art music from many centuries, in English as well as other languages. Evening concerts at the end of each trimester are required. Evaluation of students is based on concert attendance, daily participation, and bi-weekly quizzes.

ADVANCED CHOIR "VOX"

GRADE LEVEL: 9-12

PREREQUISITES: None

1 CREDIT

2 SEMESTERS

COURSE NUMBER: MUS 351

PATHWAY: All

This is an advanced choir ensemble open to grades 9-12 who have passed an audition process with the director. This class covers the following: advanced skills in vocal techniques; learning how to sight read music as an individual or small groups; participation in several concerts and contests throughout the year.

Freshman Course Descriptions

TECHNOLOGY DEPARTMENT

THEATER PRODUCTIONS

0.5 CREDIT

COURSE NUMBER: GEN 305

GRADE LEVEL: 9-12

1 SEMESTER

PATHWAY: AC

This is a one semester course designed to give our students the hands-on experience of producing live theater. From the designing of a set to the sale of tickets, students will develop a detailed understanding of the knowledge and dedication required to produce a live theatrical performance.

TECH, TOOLS, AND TRADES: DIY

0.5 CREDIT

COURSE NUMBER: TEC 410

GRADE LEVEL: 9-10

1 SEMESTER

PATHWAY: BT/EMI

This class will give you an overview of all that you need to be prepared to own your own home one day. The course will give you an introduction to basic tools and how to use them, guide you through basic home maintenance projects, introduce you to woodworking, and show how to do basic construction. In this class you'll do projects such as creating backyard games, building a doghouse, installing basic electrical outlets, learning how to do drywall, flooring, and tile, and installing a sink. This hands-on class will get you moving, building and creating. This might be the most useful class you ever take!

INTRO TO DIGITAL MEDIA ARTS

0.5 CREDIT

COURSE NUMBER: TEC 400

GRADE LEVEL: 9-12

1 SEMESTER

PATHWAY: BT/AC

This course will cover design, shooting, and editing of various films. Students will use part of the class to produce and post content to our new large video screen on the football field, while learning operations and functionality of the screen. Students will learn how the shots they choose and publish affect the live event happening in the stadium. Students will be part of a crew that works on these highlight films during class. Opportunities to shoot close contact from the games may be available. This will be a hands-on immersive class for those thinking about a career in sports television and film. Students will use the Adobe Suite and Final Cut Pro for their productions.

GAME DESIGN

0.5 CREDIT

COURSE NUMBER: TEC 421

GRADE LEVEL: 9-12

1 SEMESTER

PATHWAY: All

This course is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, students learn about all aspects of the game-design process. From there, it's on to a series of increasingly challenging hands-on projects that teach all the elements of successful game development. This course provides a solid foundation in the essentials of game design.

INTRO TO AVIATION, DRONE, AND RC FLIGHT

1 CREDIT

COURSE NUMBER: AVT 101-102

GRADE LEVEL: 9-12

2 SEMESTERS

PATHWAY: All

PREREQUISITES: None

The High School Aviation Program is an exciting and immersive course designed for students interested in exploring the world of aviation, including traditional aircraft and unmanned aerial systems (drones). This program provides a strong foundation in the principles of flight, aerodynamics, aircraft systems, navigation, meteorology, and aviation safety. Through a combination of classroom instruction, hands-on projects, and flight simulation experiences, students will gain a deeper understanding of how aircraft operate and the various career opportunities available in the aviation industry.

A key component of the program is an introduction to drone technology and its applications in industries such as photography, agriculture, emergency response, and infrastructure inspection. Students will have the opportunity to prepare for the FAA Part 107 Remote Pilot Certification, which allows them to operate drones commercially. This includes instruction in airspace regulations, drone flight safety, mission planning, and real-world flight exercises.

Students will also be introduced to the fundamentals of air traffic control, aviation regulations, and flight planning. Those who excel in the program may have opportunities to participate in field trips to airports, aviation museums, drone demonstration sites, and even introductory flight experiences.

*** To view the full Course Description Guide for Oscar A. Carlson High School, please visit www.gibdist.net**

