



# **Lancaster High School 2026-2027 Program of Studies**

Revised January 22, 2026

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# GENERAL INFORMATION

Lancaster High School offers over one hundred courses grouped under twelve departments. Theoretically, all classes are available to all students provided that the necessary prerequisites are fulfilled. However, some scheduling problems arise which make it impossible for a student to take a class which meets at the same time as another class. In such situations, the students must decide which class is more important, take that class or choose a substitute course to complete the schedule.

When choosing courses, students should pay particular attention to the requirements for graduation and the prerequisites of the course. Future schooling and potential occupational choices are also important factors to be considered when making course selection.

## A. ACADEMIC CREDIT

Academic credit is awarded only when a student successfully completes a course with a grade of at least D-. School's passing mark: 60%. Failure in a required course necessitates the student's retaking the course and passing it before a diploma can be awarded. Failure in an elective course earns no credit, but retaking the course is not mandatory. All courses meeting daily carry one-half an academic credit per semester. The school day consists of an 8 period day. No courses offered before or after the school day. LHS courses with partial credit include: Concert Choir (0.25/semester), Chamber Singers (0.25/semester), and Tutoring (0.25/semester).

## B. GRADUATION REQUIREMENTS

Students must satisfy a total of 25 credits in order to graduate from Lancaster High School. Credits earned in grades 9-12 are counted. Credits must be earned in the following subjects in order to meet graduation requirements:

4.0	Credits of English
3.0	Credits of Social Studies
3.0	Credits of Math
3.0	Credits of Science
1.5	Credits of Physical Education
0.5	Credits of Computer Basics
0.5	Credits of Health
0.5	Personal Finance (Class of 2028 and beyond)
9.0	Elective credits
<b>25.0</b>	<b>TOTAL CREDITS</b>

*(Graduating class of 2027)* Students must satisfy a total of 25 credits in order to graduate from Lancaster High School. Credits earned in grades 9-12 are counted. Credits must be earned in the following subjects in order to meet graduation requirements:

4.0	Credits of English
3.0	Credits of Social Studies
3.0	Credits of Math
3.0	Credits of Science
1.5	Credits of Physical Education
0.5	Credit of Computer Basics
0.5	Credits of Health
9.5	Elective credits
<b>25.0</b>	<b>TOTAL CREDITS</b>

## C. ACADEMIC-SENIOR REQUIREMENT

In addition to the required courses listed above, seniors must earn one academic credit from the following study areas: English, Mathematics, Science, Social Sciences or Foreign Language.

**D. ELECTIVE COURSES**

Of the 25 credits needed to graduate, 9.0/9.5 must be earned in elective courses. Elective courses include both year-long and semester classes. These courses allow the student to concentrate on special interests, prepare for college entrance, or develop vocational skills.

**E. COURSE LOAD**

To be considered a "*full-time*" student at Lancaster High School all students, grades 9-12, must carry 6 academic subjects (a course that meets 5 days per week) plus physical education or 7 academic subjects as a senior. Students in OJT have revised course loads. Details of the course loads for these classes are included in the course descriptions.

**F. NON-DISCRIMINATION DISCLOSURE**

It is the policy of the Lancaster Community School District that no person may be denied admission to any public school in this district or be denied participation in, be denied the benefits of, or be discriminated against in any curricular, extracurricular, pupil services, recreational or other program or activity because of the person's sex, race, national origin, religion, color ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability or handicap as required by s. 118.13 Wis. Stats. This policy also prohibits discrimination as defined by Title IX of the Education Amendments of 1972 (sex), Title VI of the Civil Rights Act of 1964 (race, color, and national origin), Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990.

The district encourages informal resolution of complaints under this policy. A formal complaint resolution procedure is available, however, to address allegations of violations of the policy in the Lancaster Community School District. Any questions concerning this policy should be directed to: Rob Wagner, 231 North Sheridan Street, Lancaster, WI 53813 (608) 723-2175.

**G. EARN COLLEGE CREDIT AT LANCASTER HIGH SCHOOL**

(AP) Advanced Placement – Lancaster High School courses designed to mirror college-level work. AP classes allow students to gain college credit &/or advanced placement in college by passing the corresponding AP exam at the end of the year. These courses are more challenging than standard high school classes, and are offered in a variety of subjects.

AP – Biology	AP – US History
AP – Environmental Science	AP – Precalculus
AP – Psychology	AP – Calculus AB

While there is no cost to taking AP classes, students planning to take AP exams are required to pay a nonrefundable deposit in the fall, and the remainder of their testing fee prior to testing in May.

(TC) Transcripted Credit Classes – Lancaster High School courses taught by highly qualified LHS faculty that allows high school students to earn both high school and college credit simultaneously. A transcript is awarded from a postsecondary institution that documents the college credits awarded for the course.

CTE – Accounting	Southwest Tech	10101-111 Accounting I
CTE – Business Enterprise	Southwest Tech	10102-105 Introduction to Business
CTE – Computer Basics	Southwest Tech	10103-128 Beginning Microsoft Office
CTE – Entrepreneurship	University of Iowa	ENTR 1010 Exploring Entrepreneurship
CTE – Sales & Marketing	Southwest Tech	10104-130 Marketing Principles
College Composition	Southwest Tech	10801-136 English Composition I
Research & Rhetoric	UW-Green Bay	WF 105 Research & Rhetoric
Spanish V	UW-Green Bay	SPAN 202 Intermediate Spanish

## H. DUAL ENROLLMENT OPTIONS

(ECCP) Early College Credit Program (State Statute 118.55) allows high school students to take college coursework through a UW-System Campus and have those college credits also count toward their high school graduation requirements.

(SCN) Start College Now (State Statute 38.12(14)) allows high school juniors and seniors to take college coursework through a Wisconsin Technical College System Campus and have those college credits also count toward their high school graduation requirements.

High school students must be in good academic standing to be eligible to participate in a Dual Enrollment Program. Lancaster High School defines good academic standing as (1) on-pace to meet all LHS graduation requirements, (2) minimum cumulative GPA of 2.0, and (3) not having failed or withdrawn from any high school or college-level classes in the semester preceding participation.

Deadline to apply to participate in a dual enrollment program is October 1<sup>st</sup> (Spring) and March 1<sup>st</sup> (Fall). More information is available in the High School Guidance Office.

## I. TUTORING

Course Type:	Elective
Credit:	0.25
Course Length:	Semester
Prerequisite:	Approval of high school counselor and cooperating instructor.
Description:	Designed for the student that may have an interest in pursuing a career in education or wants to help others. You will be working one on one or in a small group setting with students that need assistance with their schoolwork. The tutoring needs to be arranged to take place during a study hall for juniors wanting to participate. Seniors that have received approval may participate in the tutoring program and substitute the tutoring for one of the six courses they are required to take, providing they have the number of credits required for graduation.

# LAUDE COURSES

Lancaster High School does not rank students, rather we use a Laude System which is designed to encourage students to take rigorous coursework in preparation for their post-secondary plans. Students must have a 3.2 cumulative grade point average to earn Laude distinction. Students earn points for courses designated with qualifying rigor. The Laude score is calculated by multiplying grade point average x honors points.

\_\_\_\_\_ Cumulative GPA X \_\_\_\_\_ Honors Points = \_\_\_\_\_ Laude Points

Summa Cum Laude	50+ Points	Gold Honor Cords
Magna Cum Laude	32 - 49.9 Points	Silver Honor Cords
Cum Laude	16 – 31.9 Points	White Honor Cords

## 1.0 Point Per Semester – for completed and passed courses

AP Biology	AP Precalculus
AP Environmental Science	AP Calculus
AP Psychology	AP US History
College Composition (TC)	CTE Entrepreneurship (TC)
CTE Accounting (TC)	CTE Sales & Marketing (TC)
CTE Business Enterprise (TC)	Spanish V (TC)
Research and Rhetoric (TC)	

## 0.50 Point Per Semester – for completed and passed courses

Drama Literature	CTE Advanced Microsoft Office
Honors Geometry	Spanish III
Anatomy & Physiology	Spanish IV
Chemistry II	CTE Advanced Welding
Physics	CTE PLTW AI
Experimentation	Honors Band**
Human Social Behavior	Honors Chamber Singers**
Economics	

*\*\*Students must successfully complete requirements in addition to the normal course requirements to earn a laude point.*

### Key

AP: Advanced Placement

TC: Transcribed Credit

PLTW: Project Lead The Way

CTE: Career Technical Education

# ***AGRICULTURE, FOOD & NATURAL RESOURCES***

Careers in the *Agriculture, Food and Natural Resources* pathway are related to plants, animals, the environment, business and marketing. This pathway reflects on the importance of the different agri-sciences, of marketing strategies, of safe food production and of the need for continuous research to improve agriculture. Some professions in agriculture are also related to engineering and industrial careers.

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## **AGRICULTURE COURSE OFFERINGS**

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*CTE: Career Technical Education    OJT: On the Job Training*

CTE Plants, Animals & You	1.00 credit
CTE Ag Business Management & Marketing	0.50 credit
CET Ag Sales & Leadership	0.50 credit
CTE Environmental Conservation	0.50 credit
CTE Floral Design	0.50 credit
CTE Food Science	0.50 credit
CTE Advanced Food Science	0.50 credit
CTE Greenhouse Management I & II	0.50 credit
CTE Introduction to Horticulture	0.50 credit
CTE Landscape Design	0.50 credit
CTE Large Animal Science	0.50 credit
CTE Small Animal Science	0.50 credit
CTE Wildlife Management	0.50 credit
CTE OJT Classroom	1.00 credit
CTE OJT Supervision	1.00 credit

## **COURSE DESCRIPTIONS**

### **CTE PLANTS, ANIMALS AND YOU**

Course Type: Elective

Credit: 1

Course Length: Year

Grade Level: 9, 10, 11, 12

Description: *Food, Fuel, Fiber, Feedstuffs, Farmland, and Flowers.*

This course will introduce students to the diverse world of agriculture. Today, the agriculture sector provides us with the food we eat, the clothes we wear, the materials to build and the jobs that many of us have. Students will explore animals, plants, soils, careers and leadership through hands-on activities and in group settings. Students will begin work on a supervised agricultural experience project, which will carry over to future agriculture classes. Course will also cover basic greenhouse management skills. Any student interested in taking agriculture classes should start with this course to set a foundation that other classes will build on.

### **CTE AG BUSINESS MANAGEMENT & MARKETING**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Fall)  
Grade Level: 10, 11, 12  
Description: Are you interested in how to make money in agriculture? This course is devoted to the many areas of agribusiness and marketing. We will explore farm and land management issues, business types, insurance and risk management. Course also covers the areas of agricultural marketing, which includes commodity marketing and marketing procedures. With the use of simulation activities, computers and Career Development Event materials, we will learn about finances and money in agriculture.

### **CTE AG SALES & LEADERSHIP**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Spring)  
Grade Level: 10, 11, 12  
Description: This course will allow students to build their leadership and sales skills. Students will learn different sales techniques and work with the greenhouse management class to promote the greenhouse. Students will also learn more about leadership styles and how to grow their leadership skills through hands-on activities.

### **CTE ENVIRONMENTAL CONSERVATION**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Fall)  
Grade Level: 10, 11, 12  
Description: Course explores the principles and practices of protecting and managing natural ecosystems, including wildlife, habitats and natural resources. Topics will focus on sustainable agriculture, biodiversity, conservation, land use planning, water resource management.  
May incorporate field studies, habitat restoration, species monitoring, environmental impact assessments, conservation planning. Study of rational management of the World's environment to sustain the highest quality of life. Includes study of ecology, populations, environmental pollution, conservation of natural resources, including: energy, water, soils, forests, rangelands, and wildlife.

### **CTE FLORAL DESIGN**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Fall)  
Grade Level: 10, 11, 12  
Description: This course focuses on floral design and landscaping segments of the horticulture industry. Major units of focus will include care and handling of cut flowers, principles of art applied to floral design, and the mechanics of floral design. They will also learn about designing horticultural landscapes and plant identification. Agribusiness aspects of retail floral and landscaping design will be introduced. Students will have the opportunity to make cut flower arrangements in this course.

### **CTE FOOD SCIENCE**

Course Type: Elective

Credit: 0.50

Course Length: Semester (Fall)

Grade Level: 11, 12

Description: *Do you know where your food comes from?*

Food Science is designed to provide knowledge of food preparation, processing, and nutrition. Designed for students who want to learn basic cooking techniques and basic principles of food preparation. Lessons on measurement, kitchen equipment, culinary skills and meal planning are covered. Students will also explore the characteristics of safe food, implement sanitation practices and understand the harmful effects of microorganisms. Student activities will include sensory evaluation, baking, cooking, grilling, and frying.

### **CTE ADVANCED FOOD SCIENCE**

Course Type: Elective

Credit: 0.50

Course Length: Semester (Spring)

Grade Level: 11, 12

Description: Learn about the unique ways that foods are processed, prepared and preserved. In this course, you will explore jobs and careers that are related to the processing of dairy foods, fruits, vegetables, meats, and the fiber industries. We make full use of our meat processing equipment by learning cuts of meat and how to make jerky. Lab activities may include making a variety of edible treats including salsa, yogurt, cheese, applesauce, pickles, candy, bread, jerky and jam. This class will benefit students interested in a career in the food industry, agriculture and the general sciences.

### **CTE GREENHOUSE MANAGEMENT I & II**

Course Type: Elective

Credit: 0.50

Course Length: Semester (Spring)

Grade Level: 10, 11, 12

Description: Students will be a part of managing the greenhouse, they will be responsible for making decisions regarding pest management, annual floral arrangements, fertilizer applications, and business marketing. Students will be **required** to take part in selling plants and working with customers during the spring bedding plant sale in May.

### **CTE INTRODUCTION TO HORTICULTURE**

Course Type: Elective

Credit: 0.50

Course Length: Semester (Fall)

Grade Level: 9, 10, 11, 12

Description: This class will look at plant sciences, and the functions of plant anatomy. Topics of study will include pollinating and propagating plants, germinating seeds, plant nutrients, and factors affecting photosynthesis, respiration, and transpiration. The greenhouse will be used to help enhance classroom work with plant labs and build career skills.



### **CTE LANDSCAPE DESIGN**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Spring)  
Grade Level: 10, 11, 12  
Description: This course focuses on landscaping segments of the horticulture industry. Major units of focus will include principles of art applied to landscape design, and techniques of landscaping. They will also learn about plant identification and care and maintenance of landscape plants. Agribusiness aspects of landscaping design will be introduced.

### **CTE LARGE ANIMAL SCIENCE**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Spring)  
Grade Level: 10, 11, 12  
Description: Interested in large animals, livestock production or thinking about a career in the animal industry? This class is for you! We will study the anatomy, behavior, production, health, and management of Beef, Dairy, Swine, Sheep, Horses, Goats, and Llamas. This hands-on and inquiry-based learning class suits anyone with an appreciation for animals or for those pursuing a career with animals.

### **CTE SMALL ANIMAL SCIENCE**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Fall)  
Grade Level: 10, 11, 12  
Description: This course offers companion animal lovers and those interested in a career working with small animals or a career in veterinary science an opportunity to explore the small animal field. Pets are very popular in homes today, and it is vital that people understand the animal welfare issues faced by today's animal owners. Topics covered include: nutrition, daily care, spaying, neutering, and declawing. Labs will revolve around proper grooming, feeding, handling, restraining, and showing of small animals.

### **CTE WILDLIFE MANAGEMENT**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Fall / Spring)  
Grade Level: 10, 11, 12  
Description: Enjoy the outdoors? Take a walk on the wild side and learn about some of those critters that come and prowl in the night! This class explores hunting the whitetail deer, game management, endangered wildlife, and a variety of wildlife species and their habitats. A variety of lab activities are the highlight of the class. Waterfowl and wetland management are discussed, as well as fish management, forestry, hunting safety and small and large game mammals. Students generally have an area that they excel in and this is an opportunity to earn a grade by teaching a unit to the class (hunting, fishing, trapping, etc.). If you have an interest in wildlife species or related habitats, this class is for you!

**CTE OJT CLASSROOM (On the Job Training)**

Course Type: Elective  
Credit: 1  
Course Length: Year  
Prerequisite: Concurrent enrollment with OJT Supervision  
Grade Level: 12  
Description: This class compliments and reinforces what students may encounter at their OJT site. Units of instruction deal with job seeking and employability skills, consumer education and daily living skills. The last portion of this class will focus on job applications, resumes, cover letters and interviewing. Guest speakers will be used to supplement classroom instruction.

**CTE OJT SUPERVISION (On the Job Training)**

Course Type: Elective  
Credit: 1  
Course Length: Year  
Prerequisite: Concurrent enrollment with OJT Classroom  
Grade Level: 12  
Description: The students are placed in jobs that coincide with their career objectives. They work in the job setting approximately 15 hours per week and also have one hour per school day of related instruction

*Please note that having enough credits to allow a shortened school day, attendance, attitude, work ethic, meeting application deadlines and career goals are among the factors considered in selecting students to be involved in the OJT program.*

# ***ARTS & COMMUNICATION***

Careers in *Arts and Communications* are related to the humanities and include the performing, visual and literary arts as well as the communication media. (Careers in Business and Marketing are closely related to many artistic careers)

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## **ART COURSE OFFERINGS**

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Drawing I - IV	0.50 credit
Painting I - IV	0.50 credit
Pottery I - III	0.50 credit
3D Studio Arts I - III	0.50 credit

## **COURSE DESCRIPTIONS**

### **DRAWING I**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	none
Grade Level:	9, 10, 11, 12
Description:	Students will experiment with a number of drawing mediums, including pencil, pen, ink, colored pencil, oil pastel, chalk pastel, and charcoal. Students learn to do open ended problem solving based on projects ranging from the figure, portraits and landscapes, to still life and abstractions. All projects are outlined on worksheets with YouTube tutorials. Students will have supplies checked out to them and a shared cubby space. Every project will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **DRAWING II-III**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	B or better in previous Drawing class
Grade Level:	9, 10, 11, 12
Description:	Build on what you have learned and take it to the next level with Drawing II! This class will focus on you and your natural abilities to develop unique personal artworks from a variety of drawing materials. In this class you will continue your exploration of a variety of materials, while building your portfolios. All projects are outlined on worksheets with YouTube tutorials. Students will have additional supplies checked out to them and a shared cubby space. Every project will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **DRAWING IV**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	B or better in all previous Drawing classes
Grade Level:	10, 11, 12
Description:	These students have shown the talent and ability to earn an independent study in the selection of their projects. They are still expected to get a minimum of 4

projects done a quarter. Students will take on the responsibility of tying in 4 different art standards for each project. In Drawing 1-3 this process was done by the teacher. The advanced art student now takes on that responsibility. Teacher help will be provided. Students will have additional supplies checked out to them and a shared cubby space. All projects are uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **PAINTING I**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	none
Grade Level:	10, 11, 12
Description:	Students will embark on an in depth study in the use of watercolor, acrylic, fluid painting, and oil paints in a variety of subject matter. Students will create copied and original artworks on various surfaces like painting boards and stretching canvas. All projects are outlined on worksheets with YouTube tutorials. Students will have supplies checked out to them and a shared cubby space. Every project will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **PAINTING II-III**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	B or higher in Painting I
Grade Level:	10, 11, 12
Description:	This class will focus on you, your style, and your individual path in painting media. Students will build their portfolios with unique personal projects and develop a deeper understanding of expression through painting. All projects are outlined on worksheets with YouTube tutorials. Students will have additional supplies checked out to them and a shared cubby space. Every project will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **PAINTING IV**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	B or better in all previous Painting classes
Grade Level:	10, 11, 12
Description:	These students have shown the talent and ability to earn an independent study in the selection of their projects. They are still expected to get a minimum of 6 projects done a quarter. Students will take on the responsibility of tying in 4 different art standards for each project. In Painting 1-3 this process was done by the teacher. The advanced art student now takes on that responsibility. Teacher help will be provided. Students will have additional supplies checked out to them and a shared cubby space. All projects are uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **POTTERY I**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	None
Grade Level:	10, 11, 12
Description:	Creating Art can be messy and we will definitely test that in this class! For those of you who like the pottery wheel, you'll have a chance to work on it for an entire quarter. This way you'll gain a clear understanding of how to throw on a potter's wheel with projects including mugs, bowls, and plates. During class, you will also improve upon other various hand-building techniques such as coil and slab building as well as a clay sculpture! All projects are outlined on worksheets with YouTube tutorials. Students will have supplies checked out to them and a shared cubby space. Every project will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **POTTERY II**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	B or better in Pottery I
Grade Level:	10, 11, 12
Description:	This class is clay focused and will increase your already gained skills in Pottery I to create unique, primary independent media study. All projects are outlined on worksheets with YouTube tutorials. Only students with a B or better have shown the capability to handle the independence and workload for this class. Projects include altered bowls, goblets, Shoe Sculpture, large coil pottery, miniature sculpture, etc. Every project will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **POTTERY III**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	B or better in all previous Pottery courses
Grade Level:	10, 11, 12
Description:	These students have shown the talent and ability to earn an independent study in the selection of their projects. They are still expected to get a minimum of 4 projects done a quarter. Students will take on the responsibility of tying in 4 different art standards for each project. In Potter 1-2 this process was done by the teacher. The advanced art student now takes on that responsibility. Teacher help will be provided. Students will have additional supplies checked out to them and a shared cubby space. All projects are uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **3D STUDIO ARTS**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	None
Grade Level:	9, 10, 11, 12
Description:	Is clay too messy but you want to create 3D work? Then try this art class in which we focus on the “non-clay” side of 3 dimensional art. You will be working with a variety of mediums and materials from yarn, cardboard, plastic, paper mache’, and even have the possibility to pick and choose your projects in this course. 5-6 projects a semester and a lot of room to personalize this class to fit your personal tastes. The two pathways available are sculptured arts or jewelry design. Jewelry Design you’ll explore and create a variety of handmade wearable art jewelry like beading and knots. There will also be the option to create a patchwork shirt and a tie blanket. Students will study famous sculptors/designers and their works. All projects are outlined on worksheets with YouTube tutorials. You will have supplies checked out to you and a shared cubby space. Every project will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **3D STUDIO ARTS II**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	B or better in 3D Studio Arts I
Grade Level:	9, 10, 11, 12
Description:	3D art your thing and you would like to continue creating? This course will give you more options to create sculptured arts, wearable arts, and more of a fabric focus. Each student will have the option to hand pick their projects throughout this semester class for a total of 6 projects. All projects are outlined on worksheets with YouTube tutorials. You will have supplies checked out to you and a shared cubby space. Every project will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

### **3D STUDIO ARTS III**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Prerequisite:	B or better in Studio Arts II
Grade Level:	10, 11, 12
Description:	When 3D art is your focus, this class is for you! With two 3D classes completed with a B grade or better, you have the option to create your own pathway this semester. They are still expected to get a minimum of 6 projects done a quarter. Students will take on the responsibility of tying in 4 different art standards for each project. The advanced art student now takes on that responsibility. Teacher help will be provided. All projects will be uploaded onto your Digital Art Portfolio on Artsonia.com and will be stored there years after you graduate.

# ***BUSINESS & INFORMATION TECHNOLOGY EDUCATION***

***Business and Marketing*** encompasses a broad field of careers. Some occupations included in this area are finance, insurance, real estate, personnel, sales, merchandising, marketing research, advertising, packaging, distribution and purchasing.

***Information Technology:*** As society has become more technologically advanced, the ability to use computers is essential in most careers. Therefore, students who are not looking at a career in computer systems or programming should still strive to be proficient in using computers.

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## **BUSINESS & IT COURSE OFFERINGS**

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CTE Computer Basics	0.50 credit
CTE Personal Finance	0.50 credit
CTE Accounting (TC)	1.00 credit
CTE Advanced Microsoft Office	0.50 credit
CTE Business Enterprise (TC)	0.50 credit
CTE Entrepreneurship (TC)	0.50 credit
CTE PLTW AI	0.50 credit
CTE Publications	1.00 credit
CTE Sales and Marketing (TC)	0.50 credit
CTE Website & Video Game Design	0.50 credit

## **COURSE DESCRIPTIONS**

### **CTE COMPUTER BASICS**

Course Type:	Required
Credit:	0.50
Course Length:	Semester
Prerequisite:	None
Grade Level:	9

Description: This is a beginning course in Microsoft Office. The main focus of this course is to help students become more efficient in Microsoft Office. By becoming more efficient in Microsoft Office students will be able to utilize the skills they learn in this course towards other high school classes throughout their high school career. The students will develop a better understanding of the Microsoft environment. The students will be introduced to Microsoft Word, Excel, and PowerPoint. The course concludes with an in-depth simulated project, which includes an integration of Microsoft Word, Excel and PowerPoint.

*(TC: transcribed credit agreement with SWTC 10103-128 Beginning Microsoft Office, 1 credit)*

### **CTE PERSONAL FINANCE**

Course Type:	Required
Credit:	0.50
Course Length:	Semester
Prerequisite:	None
Grade Level:	11

Description: The purpose of this course is to inform students of various financial responsibilities and prepare for living on their own. This course will inform

students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and saving accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

### **CTE ACCOUNTING (TC)**

Course Type: Elective

Credit: 1

***Laude Points:*** ***1 Honor point awarded for each semester.***

Course Length: Year

Prerequisite: None

Grade Level: 10, 11, 12

Description: Students will learn the fundamentals of accounting. Students will become familiar with accounting terminology (the language of business), the accounting cycle, financial activities, and basic accounting principles. Fitness Junction, a computerized business simulation, will be completed. Students will do all the accounting work for a merchandising business organized as a partnership. Banking procedures will also be covered. This class is highly recommended for students pursuing all types of business careers and/or who desire to own their own business.

*(TC: transcribed credit agreement with SWTC 10101-111 Accounting I, 4 credits)*

### **CTE ADVANCED MICROSOFT OFFICE**

Course Type: Elective

Credits: 0.50

***Laude Points:*** ***0.50 Honor point awarded for the class with passing certifications.***

Course Length: Semester

Prerequisite: A 70% or better in Computer Basics.

Grade Level: 9, 10, 11, 12

Description: Advanced Microsoft Office begins with a review of computer basics processing documentation. The focus part of the course is to have students become certified Microsoft Office Specialists in Microsoft Word, PowerPoint and Excel. The class will learn more complex functions in Microsoft Excel as well as becoming efficient in Microsoft Word. Every Friday we have what is called "Tech" Fridays where we explore Photoshop & Illustrator to create fun and interesting projects.

### **CTE BUSINESS ENTERPRISE (TC)**

Course Type: Elective

Credit: 0.50

Course Length: Semester

Prerequisite: None

***Laude Points:*** ***1 Honor point awarded for the entire class.***

Grade Level: 9, 10, 11, 12

Description: Students will develop skills for small business management. They will create a business plan, understand the marketing mix, management of human resources, and the role of electronic commerce. Life skills will be covered to give students



a practical understanding of personal finance. A simulation is utilized which helps prepare students for their lives when they are “on their own.” It will provide a basic understanding of installment buying, banking, budgeting, insurance and how to look at the economy. This course is helpful for any student regardless of career choice. Interactive exercises are used to provide hands-on experience. It encompasses business and personal activities including job application skills.

*(TC: transcribed credit agreement with SWTC 10102-105 Introduction to Business, 3 credits)*

### **CTE ENTREPRENEURSHIP (TC)**

Course Type: Elective

Credit: 0.50

Course Length: Semester

Prerequisite: None

***Laude Points:*** ***1 Honor point awarded for the entire class.***

Grade Level: 11, 12

Description: Students will have the opportunity to use an entrepreneurship toolkit that encourages an "entrepreneurial mindset" by allowing creativity, innovation, critical thinking, and problem-solving - and also equipping students with the skills necessary to succeed and excel in Business.

*(TC: transcribed credit agreement with University of Iowa ENTR 1010 Exploring Entrepreneurship, 3 credits)*

### **CTE PLTW AI**

Course Type: Elective

Credit: 0.50

Course Length: Semester

Prerequisite: None

***Laude Points:*** ***0.5 Honor point awarded for the entire class.***

Grade Level: 9, 10, 11, 12

Description: This semester-long course immerses students in key elements of AI. Through interdisciplinary learning experiences, students build practical AI literacy skills and lay the foundation to move from consumer to creator. By the end of the course, students will have portfolio-ready dashboards, classifiers, and projects that demonstrate their ability to use AI responsibly and purposefully.

### **CTE PUBLICATIONS**

Course Type: Elective

Credit: 1

Course Length: Year

Prerequisite: Two recommendation forms filled out & instructor approval.

Grade Level: 12

Description: This course produces the yearbook, Arrow Flyer, messages for the school sign outside and displays for TVs in the commons. Students will learn to navigate Josten's online yearbook software to create yearbook pages. The students will use weebly.com to produce and maintain the Arrow Flyer. The students will learn BrightSign software to create displays to put on the TVs in the commons for the students, staff, and community members to see. Students will learn Ignite12 software to create messages for the school sign outside. Students will also use social media platforms (Twitter, Facebook, Instagram) to help promote, advertise, and sell yearbooks #flyingarrowpride. Some of the activities involved

in publications include designing pages, writing and proofreading articles, selling advertisements, taking pictures, obtaining pictures, communicating with school personnel and meeting deadlines.

### **CTE SALES AND MARKETING (TC)**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Prerequisite: None  
**Laude Points:** *1 Honor point awarded for the entire class*  
Grade Level: 10, 11, 12  
Description: Introduce yourself to the exciting world of marketing. You will learn how products are brought from the idea stage to becoming available on store shelves. Everything from distribution to sales will be explored. Create new products and learn how to market them efficiently. This hands-on course will provide the basis for a career path in Sales, Marketing and Business.  
*(TC: transcribed credit agreement with SWTC 10104-130 Marketing Principles, 3 credits)*

### **CTE WEBSITE & VIDEO GAME DESIGN**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Prerequisite: None  
Grade Level: 9, 10, 11, 12  
Description: In the first half of the class, students will learn the languages HTML and CSS. Students will create their own live homepages to serve as portfolios of their creations. In today's world, web pages are the most common medium for sharing ideas and information. Learning to design websites is an incredibly useful skill for any career path.

In the second half of the class students will learn the foundations of creating video games in JavaScript. The students will use the basics of computer science and programming, with an emphasis on logical thinking and problem-solving skills to create a video game.

# ***ENGLISH***

To succeed in the work place, employees must be able to communicate effectively, both orally and in writing. Therefore, most careers will require proficiency in English.

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## **ENGLISH COURSE OFFERINGS**

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English I	1.00 credit
English II	1.00 credit
English III	1.00 credit
Career English	0.50 credit
College Composition (TC)	0.50 credit
Creative Writing	0.50 credit
Dramatic Literature	0.50 credit
Literature and the Human Experience	0.50 credit
Research and Rhetoric (TC)	0.50 credit

## **COURSE DESCRIPTIONS**

### **ENGLISH I**

Course type: Required

Credit: 1

Course Length: Year

Grade Level: 9

Description: The English I course outline includes the study of types of fiction, non-fiction, poetry and drama. This material ranges from the traditional to the current introducing the student to an effective background in world literature. Basic skills in writing are stressed in addition to reviewing parts of speech (grammar). Responding to literature through writing is an integral part of the course. Creative, descriptive, narrative, expository and persuasive writing are incorporated within the literature textbook.

### **ENGLISH II**

Course Type: Required

Credit: 1

Course Length: Year

Grade Level: 10

Description: The English II course outline includes the study of types of fiction, non-fiction, poetry and drama. This material ranges from the traditional to the current providing the student with an effective background in world literature. Basic skills in composition are stressed. A review of grammar followed by special emphasis on paragraph, essay, and tripartite thesis development is an integral part of the course.

### **ENGLISH III**

Course Type: Required

Credit: 1

Course Length: Year

Grade Level: 11

Description: The English III course outline includes the study of types of fiction, non-fiction, poetry and drama. The range of reading includes primarily early to

contemporary American Literature. This course also places particular emphasis on the production of mature, academic writing including, narrative, comparative, cause and effect and research based writing.

Students taking this course can expect a strong introduction to the American literary tradition as well as the opportunity to draft a wide range of writing for a variety of purposes.

### **CAREER ENGLISH**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Grade Level:	11, 12
Description:	Career English empowers students to take ownership of their communication skills as they prepare for life beyond high school. Through real-world reading, writing, and speaking experiences, students develop the confidence to express themselves clearly, advocate for their needs, and navigate professional and academic settings with independence. The course encourages self-directed learning, critical thinking, and responsible decision-making as students explore their goals and strengthen their readiness for college, careers, and adult life. Students will also engage with meaningful literature that connects to themes of purpose and personal growth, helping them reflect on their own paths forward.

### **COLLEGE COMPOSITION (TC)**

Course Type:	Elective
Credit:	0.50
<b><i>Laude Points:</i></b>	<b><i>1 Honor point awarded for the entire class</i></b>
Course Length:	Semester
Prerequisite:	B or better in English III
Grade Level:	12
Description:	This semester course is designed to instruct college-bound students in the procedure involved in writing the following college papers: personal narrative, compare and contrast, argumentative research, and cause and effect. Students receive instruction in the current writing styles required by colleges today, as well as in the formatting and citation styles used in academic writing. Students will develop knowledge in the writing process, including: planning, organizing, writing, and editing. <i>(TC: transcribed credit agreement with SWTC 10801-136 English Composition I, 3 credits)</i>

### **CREATIVE WRITING**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Grade Level:	11, 12
Description:	Creative Writing allows students to practice descriptive, narrative, and imaginative writing. Students will improve their writing skills and creative problem solving skills. Writing lessons focus on imagery, figurative language, characterization, and plot development. Students will also study and practice contemporary literary genres including fantasy, mystery, and horror. Students will also keep a creative writing journal throughout the semester where they will practice their own creative writing skills.

### **DRAMATIC LITERATURE**

Course type:	Elective
Credit:	0.50
<b>Laude Points:</b>	<b><i>0.50 Honor point awarded for the entire class</i></b>
Course Length:	Semester
Grade Level:	11, 12
Description:	Drama Lit focuses on the study of history, development, and vocabulary of theatre in addition to the basic principles of stage movement, voice, verisimilitude, and empathy in relation to theatrical texts. Students will also experience the process of creating a setting, developing characters, setting movement, and designing an overall theatrical picture through scripts of both classic and modern eras. Students will develop skills in scene writing, performance reflection, and interpretation and analysis of historical and modern scripts.

### **LITERATURE AND THE HUMAN EXPERIENCE**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Grade Level:	11, 12
Description:	“Literature and the Human Experience” explores the human experience in plays, short stories, non-fiction and poetry. Major themes discussed are the journey from innocence to awareness, heroism, tragedy, loss, exploration of the American Dream, etc. Students are encouraged to make connections between selections and authors. In addition, students will learn to discuss and write about literary themes, express and defend a point of view using reason and evidence, build vocabulary through reading, interpret and apply literary concepts.

### **RESEARCH AND RHETORIC (TC)**

Course Type:	Elective
Credit:	0.50
<b>Laude Points:</b>	<b><i>1 Honor point awarded for the entire class</i></b>
Course Length:	Semester (Spring)
Prerequisite:	Successful completion of College Composition (B or better)
Grade Level:	12
Description:	Further instruction and practice in the rhetorical techniques and types of writing covered in College Composition, but with greater emphasis on rhetorical and critical analysis; may also include elements such as original research and the conventions of writing for specific academic communities. <i>(TC: transcribed agreement with UWGB WF 105 Research &amp; Rhetoric, 3 credits)</i>

# ***HEALTH AND HUMAN SERVICES***

Careers in this pathway are part of the health services field. They include occupations in medicine, nursing, hospital services, psychology and psychiatry, therapy, pharmacy, medical technology, optometry, dentistry, administration of health services, and emergency services. (See also Industrial, Scientific and Engineering Pathway)

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## **HEALTH COURSE OFFERINGS**

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Health Ed II

0.50 credit

### **COURSE DESCRIPTIONS**

#### **HEALTH ED II**

Course Type: Required

Credit: 0.50

Course Length: Semester

Grade Level: 10

Description: Can you do anything to ward off the inevitable signs of aging? What increases the RISK of being a victim of date rape? What defines an abusive relationship? Which STD's are not curable? There are just a few of the questions that are addressed within the content of this semester course. Subject matters concentrate on health problems and concerns that are relevant to this age and maturity level, as well as health information that will be useful in making choices in the future.

Course content includes the study of stress management, depression, suicide, dealing with loss, eating disorders, nutrition, SBS, brain health, STD's, and dating violence.

# ***PHYSICAL EDUCATION***

The Lancaster Community School District sees physical wellness as a critical component of the overall health and wellbeing of our students. All students are expected to earn a minimum of 1.5 credits of Physical Education coursework to earn their high school diploma. Additional physical education courses can be taken for elective credit.

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## **PHYSICAL EDUCATION COURSE OFFERINGS**

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Physical Education I	0.50 credit
Fit for Life I & II	0.50 credit
Team Sports I & II	0.50 credit
Weightlifting and Fitness I & II	0.50 credit

## **COURSE DESCRIPTIONS**

### **PHYSICAL EDUCATION I**

Course Type:	Required
Credit:	0.50
Course Length:	Semester
Grade Level:	9
Description:	This course gives students an opportunity to develop physical skills and knowledge in individual sports, team sports and lifetime fitness activities. In addition, students will gain knowledge of personal fitness through participation in a variety of fitness activities including an introduction to weight training. Physical fitness testing is done to assess student's level of fitness.

### **FIT FOR LIFE I & II**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Grade Level:	10, 11, 12
Description:	This class is a PE elective for non-traditional, non-competitive students. In this class you will learn how to establish personal fitness goals and develop healthy lifestyle habits that will help you have the knowledge and tools to be fit for life. We will focus on the health related fitness activities: cardiovascular endurance, flexibility, and muscular fitness. Recreational activities will also be incorporated into this class to develop a fun, cooperative, working environment. Nutrition topics will be covered as to how it relates to being fit for life.

### **TEAM SPORTS I & II**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Grade Level:	10, 11, 12
Description:	This elective course for sophomores, juniors and seniors will give the serious competitor the opportunity to develop advanced skills, strategies, teamwork, and fitness levels in a variety of sports and activities. You will play competitive games and advance your skill level in multiple disciplines throughout the semester.

## **WEIGHTLIFTING AND FITNESS I & II**

Course Type: Elective

Credit: 0.50

Course Length: Semester

Grade Level: 10, 11, 12

Description: This class will be designed with the athlete in mind. It will focus on strength, agility, stamina, coordination, flexibility, power and other sport related fitness goals. The class is not just for athletes but anyone who would like to improve their overall body. There will be days of recreational games mixed in for a fun, inviting, cooperative atmosphere. In this class you will follow a weight program developed to make you a stronger well-rounded student/athlete.



# ***INDUSTRIAL, TECHNICAL AND ENGINEERING***

Careers in this pathway are related to engineering, science, technology, construction, manufacturing, photography, communications, power, energy and transportation.

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## **TECHNOLOGY COURSE OFFERINGS**

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CTE Better Homes and Interior Decor	0.50 credit
CTE Construction	0.50 credit
CTE Fab Lab	0.50 credit
CTE Introduction to Mechanics	0.50 credit
CTE Introduction to Technology Systems	0.50 credit
CTE Metal Fabrication	0.50 credit
CTE Photography Technology	0.50 credit
CTE Wood Technology	0.50 credit
CTE Introduction to Welding	0.50 credit
CTE Advanced Welding	0.50 credit
CTE Building Trades	1.00 - 2.00 credits

## **COURSE DESCRIPTIONS**

### **CTE BETTER HOMES & INTERIOR DECOR**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Grade Level:	9, 10, 11, 12
Description:	This course is intended to provide students with the opportunity to experience and participate in the proper and functional arrangements of home design and decor. The atmosphere of a home has an enormous influence on the visual, physical, and intellectual comforts of people's lives. Course content includes the planning, decorating, and altering of interior home spaces. Class activities will include interior design, computer aided drafting, home repair and maintenance, and home decorating.

### **CTE CONSTRUCTION**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Grade Level:	10, 11, 12
Description:	Carpentry, bricklaying, concrete, electrical wiring, plumbing and blueprint reading are some of the hands-on activities associated with this course. The basics of residential construction are covered along with current trends in constructing today's energy efficient homes.

### **CTE FAB LAB (Fabrication Laboratory)**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester
Grade Level:	10, 11, 12
Description:	This course provides extensive lab time to experience equipment and technology associated with processing various materials. Students will work with 3D

printers, laser engravers, computer numerical controlled (CNC) routers, CNC mills, CNC lathes, CNC plasma cutters. Students will also use an injection molder, vacuum former, and strip heater in the processing of plastic materials. Various woodworking and metalworking will be used in the processing of wood and metal materials.

### **CTE INTRODUCTION TO MECHANICS**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Grade Level: 11, 12  
Description: This class is designed to provide students with hands-on working experiences in major areas of Mechanics. The subjects covered may include small gas engines, automotive mechanics, ag equipment and machinery, past, present and future of power and mechanics, shop organization and shop safety, and problem solving in general mechanics. Projects and demonstrations will be a major part of this course. Students will be expected to work safely and independently.

### **CTE INTRODUCTION TO TECHNOLOGY SYSTEMS**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Prerequisite: None  
Grade Level: 9, 10, 11, 12  
Description: Introduction to Technology Systems is a course offering an overview of the four major technology systems that are studied more specifically in other courses offered by the department. The four systems include:  
a) materials processing and manufacturing,  
b) power, energy and transportation,  
c) communications, and  
d) construction.  
Activity areas can include drafting, electricity, photography, printing, woodworking, metal working, engineering, plastics, video, radio, electronics, and more.

### **CTE METAL FABRICATION**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Grade Level: 9, 10, 11, 12  
Description: Through the completion of projects such as metal art, recreational equipment, home furnishings, and tools, students will learn the fundamentals of metal processes. Students will work in the areas of sheet metal, forging, casting, cutting, and machining.

### **CTE PHOTOGRAPHY TECHNOLOGY**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Grade Level: 9, 10, 11, 12  
Description: After students understand basic compositions and methods to photography, they will create a portfolio or project using traditional film photography, digital

computer photography.

### **CTE WOOD TECHNOLOGY**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Grade Level: 11, 12  
Description: This class will teach students processes and methods of woodworking and cabinetmaking using machines and hand tools. Students will construct a hardwood project that demonstrates craftsmanship and reflects quality.

### **CTE INTRODUCTION TO WELDING**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester (Fall)  
Grade Level: 11, 12  
Description: This class is designed to give the student instruction on and the ability to work with various welding processes. These processes include: stick welding, MIG (wire) welding, and TIG welding. Students will also have the opportunity to use the oxy-torch and plasma cutter. The students will be given the chance to test their welds, and to complete several small metalworking projects. Students will be expected to supply metal for one free choice project.

### **CTE ADVANCED WELDING**

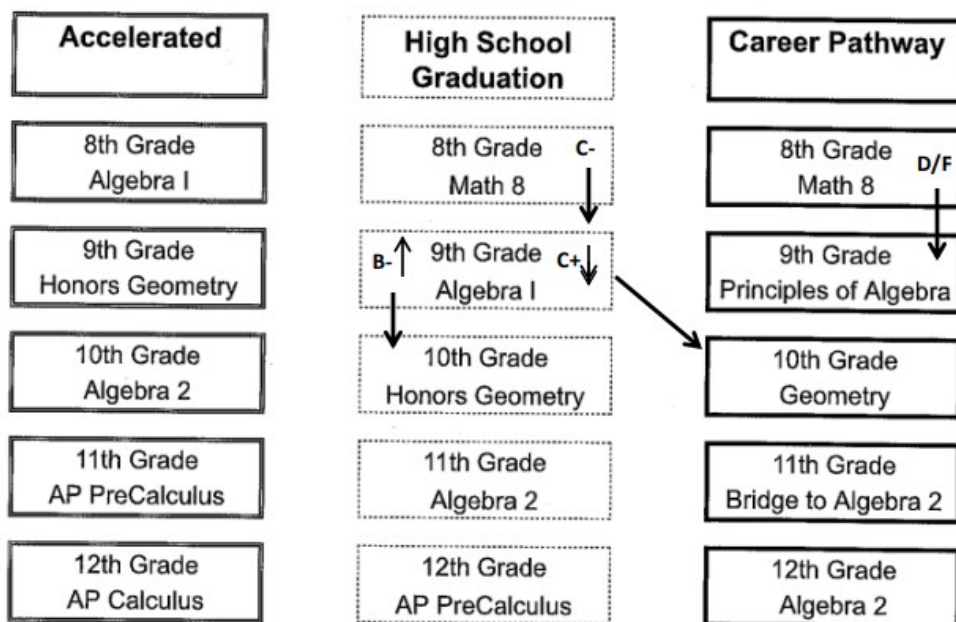
Course Type: Elective  
Credit: 0.50  
***Laude Points:*** ***0.50 Honor point awarded for the entire class***  
Course Length: Semester (Spring)  
Prerequisite: Successful completion of Introduction to Welding (B or better)  
Grade Level: 11, 12  
Description: This course in the welding program is designed to further the skills learned through the Introduction to Welding class. This program is tailored to meet the demands of local industry and allows students a great deal of freedom and flexibility in their studies. This class is designed for the highly self-motivated student. Students will be responsible for designing, fixing/building their own projects for about 50% of this class. Aluminum welding will be the focus of the other 50% of this class. Self-guidance and responsibility work hand-in-hand to create the best high school welding students in Lancaster.

### **CTE BUILDING TRADES**

Course Type: Elective  
Credit: 2  
Course Length: Year - 2 periods/day  
Prerequisite: CTE Construction  
Grade Level: 12  
Description: The class will prepare students in a technological field through classroom instruction and hands-on experience. Examples: Those interested in carpentry will build garages and/or decks out in the community in the fall and spring. Students work in the shop and at indoor jobsites in the winter months.

# MATHEMATICS

## Lancaster High School Math Sequence




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### MATH COURSE OFFERINGS

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Principles of Algebra	1.00 credit
Algebra I	1.00 credit
Honors Geometry	1.00 credit
Geometry	1.00 credit
Bridge to Algebra II	1.00 credit
Algebra II	1.00 credit
AP PreCalculus	1.00 credit
AP Calculus	1.00 credit
Applied Mathematics	0.50 credit
Elementary Statistics	0.50 credit

### COURSE DESCRIPTIONS

#### PRINCIPLES OF ALGEBRA

Course type:	Required
Credit:	1
Course Length:	Year
Grade Level:	9

Description: Principles of Algebra lays the foundation for algebraic thinking, problem-solving, and mathematical reasoning. Through this course, students will explore the fundamental concepts of algebra, including linear equations, inequalities, functions, and systems. Students will apply concepts to real-world scenarios, and use collaborative learning experiences to develop an understanding of basic algebraic concepts.

## **ALGEBRA I**

Course type:	Required
Credit:	1
Course Length:	Year
Grade Level:	9, 10
Description:	<p>Algebra I lays the foundational principles of algebraic thinking, problem-solving, and mathematical reasoning. Through this course, students will explore the fundamental concepts of algebra, including linear equations, inequalities, exponential and quadratic functions, systems of equations, and sequences. Students will apply concepts to real-world scenarios, and use collaborative learning experiences to develop a deep understanding of algebraic concepts and their practical significance.</p> <p>Algebra I serves as a critical stepping stone for students as they progress through their mathematical journey, providing them with the skills and mindset necessary for success in future math courses and in various aspects of their academic and professional lives.</p>

## **HONORS GEOMETRY**

Course Type:	Elective
Credit:	1
<b><i>Laude Points:</i></b>	<b><i>0.50 Honor point awarded each semester</i></b>
Course Length:	Year
Prerequisite:	Algebra I – B- or higher both semesters
Grade Level:	9, 10
Description:	<p>This is a unified course dealing with relationships, properties and measurements of figures in the plane. Throughout the course the properties of solid figures are related to help the student visualize concepts in the three-dimensional world. Algebra skills are maintained throughout the course. Students will be expected to take Algebra II upon completion of this course.</p>

## **GEOMETRY**

Course Type:	Required
Credit:	1
Course Length:	Year
Prerequisite:	Algebra I or Principles of Algebra—successful completion of both semesters.
Grade Level:	10, 11
Description:	<p>This is a unified course dealing with relationships, properties and measurements of figures in the plane. Throughout the course the properties of solid figures are related to help the student visualize concepts in the three-dimensional world. Basic Algebra skills are maintained throughout the course. Students will be expected to take Bridge to Algebra II upon completion of this course.</p>

## **BRIDGE TO ALGEBRA II**

Course Type:	Elective
Credit:	1
Course Length:	Year
Prerequisite:	Algebra I & Geometry
Grade Level:	11
Description:	<p>A course designed to support students' Algebra I and Geometry skills while building graphing calculator skills. The goal of this course is to provide the base skills to successfully complete Algebra II. Student access to a graphing calculator is highly recommended.</p>

## **ALGEBRA II**

Course Type:	Elective
Credit:	1
Course Length:	Year
Prerequisite:	Honors Geometry or Bridge to Algebra II
Grade Level:	10, 11, 12
Description:	A course designed to meet 4 year university entrance requirements upon successful mastery and completion of the course. Algebra I concepts will be expanded and new topics covered will be complex numbers, polynomial functions, exponential/logarithmic relations, sequences/series, and probability/statistics. Other topics that may be covered include matrices, conics, and trigonometry, if time permits. Student access to a graphing calculator is highly recommended.

## **AP PRECALCULUS**

Course Type:	Elective
Credit:	1
<b><i>Laude Points:</i></b>	<b><i>1 Honor point awarded each semester</i></b>
Course Length:	Year
Prerequisite:	Successful completion of Algebra II
Grade Level:	10, 11, 12
Description:	A course designed for students with <u>high mathematical ability</u> . The course will cover the following: polynomial and rational functions, exponential and logarithmic functions, trigonometric and polar functions, parametric equations, vectors and matrices, along with conics. This course will prepare students for college and/or AP Calculus. Students may choose to take the College Board AP exam at the end of the year, where a passing score could earn them college credit.

## **AP CALCULUS**

Course Type:	Elective
Credit:	1
<b><i>Laude Points:</i></b>	<b><i>1 Honor point awarded each semester.</i></b>
Course Length:	Year
Prerequisite:	Pre-Calculus Grade of B+ or above or a waiver from the math department.
Grade Level:	11, 12
Description:	An advanced placement (AP) program to provide the opportunity for the secondary student to pursue and receive credit for college level course work. In May of each year, the Advanced Placement Test will be offered, at the student's expense. The test, although not required, is strongly recommended. This course is for students who possess mathematical aptitude, ability, and interest. The course will be divided into three basic parts: Review of elementary functions and limits, differential calculus, and integral calculus.

## **APPLIED MATHEMATICS**

Course Type:	Elective
Credit:	0.50
Course Length:	Semester (Spring)
Prerequisite:	
Grade Level:	11, 12
Description:	

## **ELEMENTARY STATISTICS**

Course Type: Elective

Credit: 0.50

Course Length: Semester (Fall)

Prerequisite: Senior or 2<sup>nd</sup> Junior math class

Grade Level: 11, 12

Description: This is a semester long course that will be used as an introduction to statistical analytical methods including graphing distributions, numerical summaries, linear regression and correlation, the normal distribution, confidence intervals and hypothesis tests for means and proportions, analyzing two-way tables, and analysis of variance.

# MUSIC

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## MUSIC COURSE OFFERINGS

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Band	1.00 credit
Music Appreciation	0.50 credit
Music Theory	0.50 credit
Concert Choir	0.25 credit
Chamber Singers	0.25 credit

### COURSE DESCRIPTIONS

#### **BAND**

Course Type: Elective

Credit: 1

***Laude Points:*** *Must successfully complete requirements in addition to the normal course requirements to earn a laude credit. 0.50 Honor point awarded for each semester*

Course Length: Year

Prerequisite: Previous instrumental music experience is recommended

Grade Level: 9, 10, 11, 12

Description: Membership in the Lancaster High School band is open to all students in grades 9-12. The band meets five periods a week for one credit per year. If enrollment dictates, two bands may be formed during concert season at the discretion of the director and administration. Marching band includes all students and is the basic focus for the 1st quarter. Jazz Band, Pep Band, Solo Ensemble and other opportunities for individual musical growth are all a part of the Lancaster High School band program. A more complete description of the program is available from the director in the LHS Band Handbook.

#### **MUSIC APPRECIATION**

Course Type: Elective

Credit: 0.50

Course Length: Semester

Grade Level: 9, 10, 11, 12

Description: During this course, students will learn the basics in music history, theory, instrumentation, and genres. Students will listen to a variety of music throughout the course and will learn from many of the following topics: Musical Elements, Music of the Middle Ages, Music of the Renaissance, the Baroque Period, the Classical period, the Romantic Period, Twentieth Century Music, Rock, Jazz and Non-Western Music.

#### **MUSIC THEORY**

Course Type: Elective

Credit: 0.50

Course Length: Semester

Prerequisite: Experience in band, chorus or keyboards is recommended.

Grade Level: 9, 10, 11, 12

Description: This is a course designed for the serious music student. Music Theory presents a comprehensive program that includes coordinated work in written concepts, terminology and notation; exercises in music reading and sight singing and



practice in ear training. Individualized instruction is stressed. A major project for the semester involves learning the basic functions of “Finale”, a music notation software culminating in the arrangement of a work for band or other combinations of voices and instruments.

### **CONCERT CHOIR**

Course Type: Elective  
Credit: 0.50  
Course Length: Year  
Grade Level: 9, 10, 11, 12  
Description: The Concert Choir is open to freshman through senior students. Enrollment in Concert Choir is a prerequisite to the Chamber Singers and all freshman singers will be enrolled in Concert Choir. The curriculum focuses on the fundamentals of singing and musical understanding required of musicians. Students in Concert Choir will perform music from a wide variety of eras and styles. Concert Choir will meet every-other school day for one-half credit per year. Membership in this group allows students to be a part of Chamber Singers and other extra-curricular vocal music activities such as Song Spinners, Solo & Ensemble Festival, etc.

### **CHAMBER SINGERS**

Course Type: Elective  
Credit: 0.50  
***Laude Points:*** ***Must successfully complete requirements in addition to the normal course requirements to earn a laude credit. 0.50 Honor point awarded for each semester***  
Course Length: Year  
Prerequisite: Enrollment in Concert Choir. One year in Concert Choir is recommended.  
Grade Level: 9, 10, 11, 12  
Description: Chamber Singers is open to freshman through senior students. Each member will need to pass a test of musical symbols and terms, as well as a voice range and quality check. Chamber Singers will meet every-other school day for one-half credit per year. The group will perform music from a wide variety of eras and styles. The music will be more challenging than Concert Choir. The teacher will determine group membership based on the aforementioned tests as well as attitude. *Membership in this group is a partial requirement to qualify for Laude points in choir.*

# ***SCIENCE***

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## **SCIENCE COURSE OFFERINGS**

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Physical Science	1.00 credit
Biology	1.00 credit
Chemistry I	1.00 credit
Anatomy & Physiology	1.00 credit
Everyday Chemistry	0.50 credit
STEM	0.50 credit
Physics	1.00 credit
Chemistry II	1.00 credit
AP Biology	1.00 credit
AP Environmental Science	1.00 credit
Experimentation	0.50 credit

## **COURSE DESCRIPTIONS**

### **PHYSICAL SCIENCE**

Course Type:	Required
Credit:	1
Course Length:	Year
Grade Level:	9
Description:	Physical Science is an activity-centered course in which students: 1) learn introductory Earth and space, chemistry, and physics principles, 2) learn the scientific approach to solving problems, and 3) acquire an appreciation for science as a system for solving present and future problems. The course is an excellent introductory course to Biology, Chemistry, Physics, and technical courses offered at LHS.

### **BIOLOGY**

Course Type:	Required
Credit:	1
Course Length:	Year
Grade Level:	9, 10
Description:	A knowledge of biology is crucial to understanding modern concerns and controversies such as population growth, the spread of disease, and climate change. This course will cover the topics of cellular biology, genetics, evolution, and ecology. Lectures and laboratory experiments, along with other resources, will supplement the text.

### **CHEMISTRY I**

Course Type:	Elective
Credit:	1
Course Length:	Year
Prerequisite:	Algebra I
Grade Level:	10, 11, 12
Description:	This is a study of the basic concepts of chemistry designed to prepare the student for college chemistry, as well as to build a firm foundation for life in a science-oriented society. Included are the structure of atoms, chemical bonding, periodic relationships and chemical calculations. Laboratory experiments provide opportunities to learn techniques and to demonstrate learning obtained from

lectures and studies. A grade of "C" or better in Algebra is highly recommended. Chemistry is essential for students entering college with an interest in engineering, nursing, and other medical fields.

### **ANATOMY & PHYSIOLOGY**

Course Type: Elective  
Credit: 1  
***Laude Points:*** ***0.50 Honor point awarded for each semester***  
Course Length: Year  
Prerequisite: Biology  
Grade Level: 10, 11, 12  
Description: This is a preparatory study of anatomy and physiology for college-bound students in the healthcare field. It provides students with a knowledge of human body systems and how they interact to create a functional human body.

### **EVERYDAY CHEMISTRY**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Pre-requisite: Physical Science  
Grade Level: 10, 11, 12  
Description: Everyday Chemistry is designed to improve the basic understanding of chemistry in our lives. This course is designed to introduce students to the fundamental principles of chemistry and to show students how chemistry is applied to their lives and society. This course combines theory, applications and the impact of chemical concepts on society. Laboratory experiments help students to develop concepts and demonstrate their relevance. Although the approach is less mathematical than in the traditional Chemistry class, the course requires an understanding of basic algebra skills. Some of the concepts we will address are; pollution, air and climate, petroleum products and alternatives, sports, drugs, cosmetics and cooking.

### **STEM**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Pre-requisite: Physical Science  
Grade Level: 11, 12  
Description: STEM stands for Science, Technology, Engineering and Math. This will be a project-based course incorporating science, math and technology in engineering practices. Students will be required to work in small groups to complete projects, create presentations, and demonstrate their knowledge of various concepts including: energy resources, engineering disciplines, and simple mechanical devices.

### **PHYSICS**

Course Type: Elective  
Credit: 1  
***Laude Points:*** ***0.50 Honor point awarded for each semester***  
Course Length: Year  
Prerequisite: Algebra II  
Grade Level: 11, 12

Description: This course will provide the student with an understanding of major physics concepts in the areas of motion, forces, vectors, momentum, work, energy, and universal gravitation. The format will attract students' interest through exploration of physical phenomena, help them learn basic concepts of physics and then have them apply those concepts to activity-centered experiences. Physics can be a benefit to those who are interested in college preparation, a technical school or related field. Physics is essential for those who are entering college with an interest in medicine, engineering, science or technology.

## **CHEMISTRY II**

Course Type: Elective

Credit: 1

***Laude Points:*** ***0.50 Honor point awarded for each semester***

Course Length: Year

Prerequisite: Grade of "B" or higher in Chemistry I

Grade Level: 11, 12

Description: This course is designed to follow the Chemistry I course, which is a prerequisite to taking the course. It is designed to continue on, and go deeper in depth in the concepts of chemistry. Students who complete this course will be well prepared for upper level college chemistry courses. Included in the curriculum is a more in-depth study of chemical reactions, bonding, states of matter, kinetics, thermodynamics and nuclear, and organic chemistry. Laboratory experiments will be included with all units.

## **AP BIOLOGY**

Course Type: Elective

Credit: 1

***Laude Points:*** ***1 Honor point awarded for each semester***

Course Length: Year

Prerequisites: Chemistry

Grade Level: 11, 12

Description: The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. This course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. An in-depth study of the following topics will be covered and include: molecules and cells; genetics and evolution; and organisms and populations. In order to receive a college credit, students must pass the AP Biology Exam in May. Enrollment will be limited to a few select students.

## **AP ENVIRONMENTAL SCIENCE**

Course Type: Elective

Credit: 1

***Laude Points:*** ***1 Honor point awarded for each semester***

Course Length: Year

Prerequisite: Chemistry

Grade Level: 11, 12

Description: The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative

solutions for resolving or preventing them. Climate change is a world-wide problem that needs immediate action, many jobs of the future will involve environmental science. Enrollment will be limited to a few select students.

### **EXPERIMENTATION**

Course Type: Elective

Credit: 0.50

***Laude Points:*** ***0.50 Honor point awarded for the entire class***

Course Length: Semester

Pre-requisite: Minimum of 4 science credits and teacher approval

Grade Level: 12

Description: The Experimentation course is an upper-level course designed to follow Chemistry II, AP Biology, Anatomy and Physiology, or AP Environmental Science. There will be an interview before admittance into the course. This course will be completely project-based and self-guided. Students will choose a project from a list of science topics, the topic then will be researched in depth. During the research, the student must design an experiment. The experiment will be conducted with the results being written into a research paper and presented to students and staff. Grading will be done on the final projects, participation, as well as added tasks, such as article reviews and case studies.

# ***SOCIAL SCIENCE and HUMAN SERVICES***

Careers in this pathway are linked to family/consumer, economics, political and social systems. Some occupations include those in hospitality, recreation, public, and community service and the broad field of social services. Careers such as those in education, government, law, law enforcement, the military, child care, food service, counseling, cosmetology, fire protection, hotel and restaurant services, economics and history may be found in this cluster.

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## **SOCIAL STUDIES COURSE OFFERINGS**

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United States History	1.00 credit
Western Civilization	1.00 credit
American Government	1.00 credit
Economics	0.50 credit
Human Social Behavior	0.50 credit
Introduction to Law	0.50 credit
World Cultures	0.50 credit
AP Psychology	1.00 credit
AP US History	1.00 credit

### **COURSE DESCRIPTIONS**

#### **U.S. HISTORY**

Course Type: Required

Credit: 1

Course Length: Year

Grade Level: 9

Description: This course is a study of the development of the United States from the period of the Reconstruction to the present time. A review of the Civil War, its causes and effects, is included. Emphasis is placed on the origin and development of American political, economic and social traditions and concepts, especially from the Civil War period to the present time.

#### **WESTERN CIVILIZATION**

Course Type: Required

Credit: 1

Course Length: Year

Grade Level: 10

Description: The history of the Western World will be presented with units on the following:

a) Ancient Egypt	g) 17th Century England
b) Troy, Crete and Mycenae	h) Louis XIV
c) Ancient Greece	i) The French Revolution
d) Rome	j) The Napoleonic Age
e) Medieval Europe	k) Russia
f) The Italian Renaissance	l) The World at War

#### **AMERICAN GOVERNMENT**

Course Type: Required

Credit: 1

Course Length: Year

Grade Level: 11

Description: The class is designed to give students an understanding of how the democratic process works in the United States from all perspectives: local, state, and national. A study of the United States Constitution and its interpretation and application in current events will also be explored.

### **ECONOMICS**

Course Type: Elective

Credit: 0.50

***Laude Points:*** ***0.50 Honor point awarded for the entire class***

Course Length: Semester

Grade Level: 11, 12

This course is a must for those students interested in a career in the field of business. We will cover the major areas of economics which is a required course for all business degrees. Students will design and market their own businesses, participate in the Wisconsin State Stock Market Simulation and learn about money, banking and making wise consumer decisions. Topics will include:

- a) Economic systems and decision making
- b) Business organizations and economic Institutions
- c) Supply & Demand
- d) Prices and decision making
- e) Money and Banking
- f) The Federal Reserve System
- g) Population, economic growth and business cycles
- h) Unemployment, inflation and poverty

### **HUMAN SOCIAL BEHAVIOR**

Course Type: Elective

Credit: 0.50

***Laude Points:*** ***0.50 Honor point awarded for the entire class***

Course Length: Semester

Grade Level: 11, 12

Description: This course introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues.

### **INTRODUCTION TO LAW**

Course Type: Elective

Credit: 0.50

Course Length: Semester

Grade Level: 11, 12

Description: This course is separated into two semester length topic areas.

The first nine weeks is designed for those students interested in a career in law enforcement. We will explore the legal system through the viewpoints of a lawyer, judge, policeman, forensic investigator and jail officer. Students will be able to sit in on a court case, take a jail tour and participate in evidence gathering activities. Topics covered will include:

- a) Introduction to Law
- b) Crime in America
- c) Crime in Wisconsin
- d) The criminal procedure
- e) The trial
- f) Sentencing and corrections
- g) The juvenile justice system
- h) The civil law procedure

## **WORLD CULTURES**

Course Type: Elective  
Credit: 0.50  
Course Length: Semester  
Grade Level: 11, 12  
Description: This course explores different regions of the world, the lifestyles of the people in these regions, their religions, food, and customs. The course also explores current events and issues in the regions and their relationship with the United States. Regions studied include the Middle East, Latin America, Africa South of the Sahara, South Asia, and East Asia.

## **AP PSYCHOLOGY**

Course Type: Elective  
Credit: 1  
**Laude Points:** *1 Honor point awarded for each semester*  
Course Length: Year  
Prerequisite: minimum cumulative GPA of 3.0+ OR instructor approval  
Grade Level: 11, 12  
Description: This course is designed to parallel what would be taught in an introductory psychology course in college or technical school. Students will have the option of taking the AP Psychology exam at the end of the course if wish to pursue college credit in Psychology. The content of the course will include the following topics:

a) Sensation and perception	h) Life Span Development
b) States of Consciousness	i) Personality
c) Learning	j) Stress and Health Psychology
d) Memory	k) Psychological Disorder
e) Cognition and Language	l) Therapies
f) Intelligence and Mental Abilities	m) Social Psychology
g) Motivation and Emotion	

## **AP US HISTORY**

Course Type: Elective  
Credit: 1  
**Laude Points:** *1 Honor point awarded for each semester*  
Course Length: Year  
Grade Level: 11, 12  
Description: This course will cover U.S. History from early exploration through present time, and is designed to help students develop the skills necessary to be successful on the AP U.S. History exam. This course will be conducted as a college level survey in U.S. History and will cover the following topics:

a) Colonial North America	j) America Emerges as a World
b) The American Revolutionary Era	k) Power and Progressivism
c) The Early Republic	l) World War I and the 1920's
d) The Age of Jackson	m) The Depression & New Deal
e) The Nation Divided	n) World War II
f) Civil War & Reconstruction	o) The Cold War Era
g) The West	p) The Turbulent 1960's
h) The Gilded Age	q) 20th Century Politics & Economics



# ***WORLD LANGUAGES***

Lancaster High School offers students the opportunity to learn Spanish. Language assists in meeting some college admission/graduation requirements and also opens doors to many careers in which the ability to speak a second language is helpful. High School language experience also provides the opportunity to test out of college language classes and to receive as many as 14 university credits for work done while in high school. The ability to speak more than one language is a fundamental skill for global citizens of the 21st century. Study of world languages increases cultural awareness and broadens employment options for all students.

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## **WORLD LANGUAGE COURSE OFFERINGS**

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Spanish I	1.00 credit
Spanish II	1.00 credit
Spanish III	1.00 credit
Spanish IV	1.00 credit
Spanish V (TC)	1.00 Credit

### **COURSE DESCRIPTIONS**

#### **SPANISH I**

Course Type:	Elective
Credit:	1
Course Length:	Year
Grade Level:	9, 10, 11, 12
Description:	This course is designed to provide an introduction to the Spanish language for the students who want only one year of study as well as a basis for students who wish to pursue further study. The objective of the class is to achieve a basic degree of communication and to be introduced to the culture of Spain and Latin America with an emphasis on holidays, food traditions, Andalucia, and the basic geography of the Spanish-speaking World. Students learn to communicate in the classroom using only Spanish.

#### **SPANISH II**

Course Type:	Elective
Credit:	1
Course Length:	Year
Prerequisite:	A grade of C or better in Spanish I.
Grade Level:	9, 10, 11, 12
Description:	Spanish II builds upon the knowledge and skills practiced in Spanish I. Students will continue to communicate about themselves and their lives through themes such as hobbies, routines, homes, community, feelings and personal timelines. Students will be assessed on their ability to read, listen, write, speak and converse in Spanish. Course goals include expanding simple sentences and connecting ideas with transition words. Students will gain confidence in the present tense and begin using the past tense.

#### **SPANISH III**

Course Type:	Elective
Credit:	1
<i>Laude Points:</i>	<i>0.50 Honor point awarded each semester</i>

Course Length:	Year
Prerequisite:	A grade of B or better in Spanish II (or permission from the instructor).
Grade Level:	10, 11, 12
Description:	Spanish III builds upon the knowledge and skills practiced in Spanish II. Students will begin communicating about historical events as well as their own lives more abstractly through themes such as friendships, history, technology, driving, future plans, and family traditions. Students will be assessed on their ability to read, listen, write, speak and converse in Spanish. Course goals include an emphasis on beginning conversational skills. Students will gain confidence in the present and past tenses.

#### **SPANISH IV**

Course Type:	Elective
Credit:	1
<b><i>Laude Points:</i></b>	<b><i>0.50 Honor point awarded each semester</i></b>
Course Length:	Year
Prerequisite:	A grade of B or better in Spanish III (or permission from the instructor).
Grade Level:	11, 12
Description:	Spanish IV is a Spanish-only course that builds upon the knowledge and skills practiced in Spanish III. Course goals include strengthening spontaneous conversation through increasingly “real world” topics like identity, health & hospitals, cooking, traveling, and fashion. Students will be assessed on their ability to read, listen, write, speak, and converse in Spanish. Students will gain confidence in the present, past, future, and conditional tenses, as well as the subjunctive mood.

#### **SPANISH V (TC)**

Course Type:	Elective
Credit:	1
<b><i>Laude Points:</i></b>	<b><i>1 Honor point awarded each semester</i></b>
Course Length:	Year
Prerequisite:	A grade of B or better in Spanish IV (or permission from the instructor).
Grade Level:	12
Description:	Spanish V is a Spanish-only college-level course that builds upon the knowledge and skills practiced in Spanish IV. Students will communicate on issues of global significance through themes such as TV & movies, the environment, immigration, and human rights. Students will then complete a long-term capstone project in which they complete an individual research project on a topic affecting the Spanish-speaking world. Students will be assessed on their ability to read, listen, write, speak, and converse in Spanish. Course goals include strengthening spontaneous conversation, improving group discussion, communicating in more formal contexts, and alternating among tenses and moods as necessary. <i>(TC: transcribed credit agreement with UWGB SPAN 202 Intermediate Spanish Language II, 3credits)</i>