



# LAKE ZURICH HIGH SCHOOL PROGRAM OF STUDIES 2023-2024

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT  
SCHOOL DISTRICT 95 IS TO  
EMPOWER EVERY LEARNER TO  
ACHIEVE PERSONAL EXCELLENCE.



## TABLE OF CONTENTS

3	General Academic Information	47	Lake County Tech Campus
9	College & University Partnerships and Dual Credit	55	Literacy & Performing Arts Literacy English Learning & Bilingual Drama Music
11	D95 Pathways & ISBE Career Pathway Endorsements	69	Mathematics & Computer Science
19	Internship Opportunities	75	Physical Development & Wellness Physical Education Health & Wellness Driver Education
23	Global Studies Social Studies World Languages & Cultures	79	Science
33	Innovation & Career Pathways Art & Design Business Engineering Family & Consumer Sciences	83	Special Education
		85	Student Resource: Four-Year Planning Guide





# GENERAL ACADEMIC INFORMATION

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## ACADEMIC LEADERSHIP

**Mrs. Erin DeLuga**  
**Principal**

Erin.DeLuga@lz95.org  
(847) 540-4109

**Ms. Ashley Weltler**  
**Assistant Principal for Academics,  
Assessment, & Innovation**

Ashley.Weltler@lz95.org  
(847) 540-4629

**Ms. Cara Obrochta**  
**Assistant Principal for Student  
Services**

Cara.Obrochta@lz95.org  
(847) 540-4196

## ACADEMIC PROGRAM DESCRIPTION

Lake Zurich High School offers a comprehensive, engaging, and appropriately challenging curriculum with a variety of core courses to meet graduation requirements and electives that allow students to explore subjects of personal interest. Our work continues in organizing our programs in meaningful pathways to best meet the needs of students and help them achieve post-secondary success. This includes capstone courses, dual credit opportunities, service-learning opportunities, certifications, and internships. Our goal is to foster individual and collective student growth.

*Our commitment to providing students with the best possible educational experience that will inspire them to achieve their goals in personal excellence is resolute.*

Lake Zurich High School operates on a semester basis in which courses are offered for either one or two semesters. A student will be awarded one-half (.5) unit of credit for each semester of work successfully completed. Any student enrolled in Lake Zurich High School may enroll in any course offered, if the student meets the qualifications, as defined below:

- **REQUIRED COURSES:** Courses required of all students as a graduation requirement are to be taken in the sequence established in the program of studies. A required course cannot be audited.
- **PREREQUISITES:** Certain courses have prerequisites for student enrollment, meaning a course must be taken prior to taking the subsequent course. These prerequisites are listed within the course descriptions.
- **COREQUISITES:** Certain courses have corequisite enrollment, meaning students are enrolled in both courses at the same time. Corequisites are listed within the course descriptions.
- **MINIMUM ENROLLMENT:** If a course does not have adequate enrollment, the course will not be offered for that specific semester. Students will be given the opportunity to choose another course to substitute for the one that was cancelled.
- **CLASS AVAILABILITY:** Because of student enrollment patterns, not all courses will be offered each semester.

Lake Zurich High School recognizes that grades and credits are necessary elements of academic performance. We wish to emphasize to both parents/guardians and students that the aims of education are accomplished not by the pursuit of grades, but by the pursuit of knowledge and development of skills. Faithful, patient study brings achievement and rewards not measured by grade averages and credit counts.

Lake Zurich High School has a standard grading scale that shall be considered in determining a student's letter grade. The scale is as follows:

## GRADING SCALE

## GRADING INTERPRETATION

		AP	HONORS	COLLEGE PREP	
A+	97–100%	A+	5.67	5.33	4.33
A	93–96%	A	5.33	5.00	4.00
A–	90–92%	A–	5.00	4.67	3.67
B+	87–89%	B+	4.67	4.33	3.33
B	83–86%	B	4.33	4.00	3.00
B–	80–82%	B–	4.00	3.67	2.67
C+	77–79%	C+	3.67	3.33	2.33
C	73–76%	C	3.33	3.00	2.00
C–	70–72%	C–	3.00	2.67	1.67
D+	67–69%	D+	1.33	1.33	1.33
D	63–66%	D	1.00	1.00	1.00
D–	60–62%	D–	0.67	0.67	0.67
F	0–59%	F	0.00	0.00	0.00

- A total grade breakdown in every course is comprised of:
  - 80% summative assessments
  - 20% formative work
- A passing grade shall not reflect a percentage lower than 60%.
- Withdrawing from a class after the first six weeks will result in a grade of WF.
- This system reflects a system which does not use rounding. (i.e. a grade of 89.8% would not be rounded up to 90% and a grade of B+ would be reported.)
- All courses receive a letter grade unless otherwise noted in the course description.

Please be advised that LZHS does not calculate class rank or recognize valedictorian and salutatorian. Students achieving the highest honors, according to weighted GPA, will be denoted in the graduation program as follows:

- *Summa Cum Laude*: 4.8 and above
- *Magna Cum Laude*: 4.5 – 4.79
- *Cum Laud*: 4.0 – 4.49

## HIGH HONOR ROLL & HONOR ROLL

Lake Zurich High School is proud to honor students who demonstrate academic achievement. The Honor Rolls are published each semester, and are based on semester GPA only. Honor Roll designations are calculated in the following manner:

### High Honor Roll

- Unweighted GPA: 3.5+
- Weighted GPA: 4.0+

### Honor Roll

- Unweighted GPA: 3.0–3.499
- Weighted GPA: 3.0–3.99

## INSTRUCTIONAL LEVELS

### Advanced Placement (AP)

The Advanced Placement Program provides students with an opportunity to study college–level courses. By taking AP examinations in the spring, students may receive credit for college. AP credit is awarded at the highest instructional level at LZHS.

### Honors

Honors courses provide students with the opportunity to pursue a program of study which challenges one's ability, encourages and cultivates one's academic interests, and allows entrance into Advanced Placement classes. Grades, teacher recommendations, test scores, demonstrated effective effort, and other criteria will be used to determine eligibility for honors classes. Satisfactory performance in previous honors classes will be required to continue in the honors sequence. **All dual credit courses at LZHS are offered at the honors level.**

### College Preparatory (CP)

College Preparatory courses provide students with strong preparation for college placement and post–secondary success. Grades, test scores, effective effort, and teacher recommendations are the criteria used to determine placement.

## GRADUATION REQUIREMENTS

24 CREDITS ARE REQUIRED FOR GRADUATION, INCLUDING:

English	4.0 credits
Mathematics	3.0 credits
<i>Algebra</i>	1.0 credit
<i>Geometry</i>	1.0 credit
<i>Other</i>	1.0 credit
Science	2.0 credits
<i>Life Science</i>	1.0 credit
<i>Physical Science</i>	1.0 credit
Social Studies	2.5 credits
<i>Government</i>	0.5 credit
<i>U.S. History</i>	1.0 credit
<i>World Studies</i>	1.0 credit
Consumer Education	0.5 credit
Physical Ed./Dr. Ed/Health	4.0 credits
Humanities	1.0 credit

## COURSE LOAD

All students must be enrolled in a minimum of 300 minutes per semester in compliance with the Illinois State Board of Education. This equates to 7 credits or 6 credits and 1 Study Hall. Students should take a comprehensive and challenging course load to reach their post–high school goals. Fifth year students may carry a modified course load. Course offerings are listed for the year in which they are required or recommended. Only in exceptional cases may a student enroll in a course below or above specified classification. Final approval must be made by the appropriate administrator. Students must be enrolled in six graded courses to be eligible for honor roll and high honor roll.

## Academic Integrity

Lake Zurich High School remains steadfast in promoting individual thought and growth, preserving intellectual property and academic integrity by developing trust, rapport, and moral academic behavior and practices among all stakeholders. We are committed to an inclusive learning environment, providing scaffolded and differentiated support, treating one another with fairness, kindness, and respect as partners in the learning process.

Any breach in academic integrity, including but not limited to: cheating, plagiarizing, wrongfully distributing or obtaining assessment materials, sharing information related to an assessment, altering school records, or other acts of academic misconduct will be firmly addressed by school officials.

## Academic Resource Spaces

Lake Zurich High School offers multiple academic resource spaces for students to access throughout the school day, as well as many offerings before and after school. The following are available for student use:

- LZHS Learning & Innovation Hub
- Literacy Resource Center
- Math & Science Resource Center
- Social Studies Resource Center
- World Language Lab & Resource Center
- NHS Tutoring
- Course-specific Tutoring Services

## Adding a Course

Students may add a course under the following conditions:

- Initiated by a student's counselor due to not meeting prerequisites, balancing classes, graduation requirements, summer learning, college admission requirements, IEP requirements, or errors in the student's schedule
- Initiated by the Division Head for reasons of academic placement based upon need and availability

## College Board Suite of Assessments

All students will engage in the College Board Suite of Assessments in the fall and spring of their freshman, sophomore, and junior year. Participation in these benchmark assessments provides data of growth and skill development over time. The schedule is as follows:

### Fall

Freshmen: PSAT 8/9

Sophomores: PSAT/NMSQT

Juniors: PSAT/NMSQT

### Spring

Freshmen: PSAT 8/9

Sophomores: PSAT10

Juniors: SAT

In May, all students taking an Advanced Placement (AP) course have the opportunity to sit for the AP Examination. Students may receive early college credit based on exam results.

## Course Audits

Auditing a course is a privilege which may be granted to a student in special circumstances. Those circumstances include such needs as remediation to meet prerequisites for subsequent courses or an adjustment for transfer students. Students are responsible for completing all coursework; however, the student will not receive credit for the course. In addition, no grade will be computed into the student's GPA. An audited class cannot be dropped until the designated schedule change period at the beginning of each semester. An audited course cannot be changed to a different audited course or to a non-audit course. A student cannot audit a required course for graduation. Only one class can be audited each semester. One full year-long course can be audited for each year. Students must complete an Audit Request and Approval Form, available in the Student Services Office, by the registration deadline and before the course begins.

## Course Fees

Some courses at LZHS carry an additional fee. Fees are defined within the course descriptions below. Fees will be added to a student's PushCoin account prior to the start of the school year. All course fees should be paid within the first two weeks of the semester.

## Dropping a Course

Students may withdraw from a course within the first thirty school days of the semester in which the course is being taken. Please note that in a full-year course students will have ten school days of second semester to drop a course. Students who drop a class after this time will receive a grade of WF and have a failing grade included in their final grade point average. Procedure for dropping a course:

1. Student discusses concerns with teacher
2. If dropping a course is agreed upon by the student, parent, and teacher, the student must pick up the course drop form from the Student Services Office
3. Obtain all necessary signatures and return to counselor by deadline

## Early Graduation

The Superintendent or designee shall implement procedures for students to graduate early, provided they meet all graduation requirements. Students must apply to their counselor for early graduation by May 1 of the preceding year. Notification of the student's request and verification of the student's acceptability for early graduation will be given to the administration by the counselor. It is the responsibility of the student to ensure that graduating early will not affect college admission or other post-secondary plans.

## Eligibility

In order for a student to participate in extra-curricular and/or IHSA sponsored activities at LZHS, the student must be attending and passing 25 credit hours per week or typically five full classes. In addition, the student must have passed 25 credit hours or typically five full courses during the previous semester. According to IHSA guidelines, "passing" work shall be defined as "work of such a grade that if on any given date a student would transfer to a different school, passing grades for the course would immediately be certified on their transcript to the school to which they transfer."

Starting on the third week of each semester eligibility will begin. Grades will be gathered on Friday or the last attendance day of each week and a 25 credit hour report will be run along with an "F" report. If a student is passing 25 credit hours without any Fs, they are eligible for competition the next week. If a student is passing 25 credit hours but has one or more Fs, the student will have three eligibility reports to raise each F to a D- or higher, but will be able to compete during that time.

1. Within three eligibility reports, if the F grade(s) is (are) raised to a D- or higher, the student will be eligible for competition.
2. After three eligibility reports of an F in the same class, a student will become ineligible for the following week(s).
3. If a student raises their grade to a D- or higher and then later in the semester earns an F in that same course, the cycle to improve the grade starts over.

If a student is not passing 25 credit hours on the weekly eligibility report, they will be ineligible to participate the following week (Mon-Sun) in any competition. A letter will be emailed to the student, parent and coach if a student appears on the not passing 25 credit hours report or if they have an F indicating their eligibility status along with academic support systems available to the student.

## External Credit

A student may receive high school credit for taking a course through an accredited institution provided the course is not offered by the district (the student has exhausted the school's curriculum) and the student obtains the consent of a supervising teacher, appropriate Division Head, School Counselor, and the Assistant Principal for Academics, Assessment, & Innovation or the Assistant Principal for Student Services before instruction begins. External Credit Forms are available in the Student Services Office and must be completed and approved by all parties prior to enrollment in the course. The student assumes responsibility for all fees.

## Freshman Foundations

Freshman Foundations aims to provide freshmen a safe and dynamic environment to enrich their social/emotional, college/career readiness and academic transition to Lake Zurich High School. All freshman students will participate in Freshman Foundations for 20 minutes during their lunch period, three days per week. Sections are assigned according to counseling caseload. The goals of the program are as follows:

- Demonstrate social-emotional growth in the areas of self-awareness, self-management, social awareness, relationship skills, and responsible decision-making
- Be fully acclimated to the high school environment, including policies and procedures, by the end of their first year of high school
- Develop a relationship with their school counselor for the purpose of developing a four-year plan that will lead to proactive academic, social-emotional, and college/career counseling
- Learn from the experiences of successful LZHS junior and senior students who demonstrate leadership by serving as mentors for Freshman Foundations.

## LZHS Scheduling Process

Each year, the LZHS master schedule is built to accommodate students' course requests made during the registration process in January and February. Staffing, materials, and building usage are all dependent on student course requests.

- Teachers provide recommendations for students in core content areas
- Students select the remainder of their courses online
- Counselors meet individually with each student during the course selection process to discuss the student's four-year plan, post-secondary goals, and potential courses and pathways of interest to the student
- The following will be made available for viewing in Home Access Center:
  - February: Core Course Placements
  - March: Final Course Selections
  - August: Final Student Schedule
- Specific information will be shared with students and families throughout the process by the Assistant Principal of Academics, Assessment, & Innovation

## Office Hours

Lake Zurich High School offers office hours five days per week as an additional resource and support for students. Office hours are available for all students; while appointments are encouraged, walk-ins are welcome! Teachers may request an appointment with a student in advance of office hours; in that case, attendance is mandatory. Students should scan into office hours using the location-specific QR code. Office hours may be used for any of the following:

- Meet with a teacher for assistance with course assignments/assessments
- Meet with a student services staff member
- Completion of course assignments/makeup work & assessments
- Required attendance for students with Ds and Fs
- Student collaboration
- Intervention or extension activities

## Preparing for Post-Secondary Goals

Lake Zurich High School is committed to preparing students for life after high school, including but not limited to: two or four year colleges and universities, joining the military, exploring entrepreneurial interests, or entrance into the trades or workforce. While not an exhaustive list, below are a number of services we provide at LZHS in order to assist students in their post-secondary goals:

- Paid and unpaid internship opportunities in a plethora of fields, aligned with LZHS coursework
- ISBE-approved Career Pathway Endorsements on student transcripts
- A full-time post-secondary counselor, serving students of all levels and varied post-secondary goals
- College-bound students will find a number of resources and events:
  - College101
  - Financial Aid
  - Essay Writing
  - College Visits in the College/Career Center
  - Letters of Recommendation
  - Variety of Virtual and In-Person Presentations
- Established college/university partnerships providing early college credit and dual credit opportunities in every LZHS Division (as outlined in course descriptions)
- Career Fairs
- Job Boards
- Guest Speakers
- Service Learning Opportunities
- Certifications
- Leadership Opportunities through LZHS coursework, clubs, activities, and athletics

## Requesting a Level Change

On occasion, students may need to change the level of the class in which they are enrolled. Students must initiate a level change request within the first thirty school days of the semester in which the course is being taken. The level change request process must be completed within the first forty-five school days. Level changes initiated after the stated deadlines will only be approved for the start of the second semester. Please note that in a full-year course students will have ten school days of second semester to complete a level change. The grade at the time of the change will accompany the student to the new course. All level change requests are subject to availability. Requesting a level change starts with a conversation between the student and their teacher. After this conversation has occurred, the steps for initiating the level change process are as follows:

1. Meet with current teacher and work through required interventions
2. Meet with counselor
3. Schedule follow up meeting with teacher
4. Obtain parent/guardian signature
5. Obtain Division Head signature
6. Return form to counselor to obtain updated schedule

## Requesting a Transcript

All transcripts are sent electronically through either Parchment or Common Application/Coalition Application. Current students will have no fees to send transcripts; fees may apply for graduates. Students who have changed or added courses, including summer courses, should make sure their transcript is complete and correct by logging into Home Access Center and checking it BEFORE submitting a request through Parchment. Fall transcripts will be sent when all summer grades and GPAs are added and calculated. Please be sure to allow 15 school days for processing and be aware of deadlines for submitting transcripts. [To access Parchment, click here.](#)

## Retaking a Course

Students may retake any course. The original course will appear on the transcript with a grade of R. The GPA will be determined by using the grade from the most recent completed course. Duplicate credit will not be issued. Students must complete a Course Retake Form available in the Student Services Office before the first day of the course if the grade they wish to replace is above an F. Students wishing to retake a course at a different high school need to consult their Counselor, appropriate Division Head, along with the Assistant Principal for Academics, Assessment, & Innovation. Students must complete an External Credit Form as well as a Course Repeat Form prior to taking the course. Students may not retake a course after completing the next sequenced course. For example, students may not retake Spanish I after completing Spanish II; students may not retake Algebra I after completing Geometry.

## Student Teaching Assistant (TA) Opportunities

Students interested in gaining leadership experience in the classroom setting are offered an opportunity to serve as a Teaching Assistant (TA) in many departments across LZHS. Students who participate in these courses earn 0.25 credit per semester, and are placed into the course based upon availability after schedules are released in August. Students may replace a study hall or an open period for a TA course. Prerequisites may apply; please see the appropriate division head or school counselor to apply! Below are many opportunities available for LZHS students:

- ACCEratoredu/INCubatoredu Teaching Assistant
- Athletic Office Assistant
- Attendance Office Assistant
- Culinary Lab Assistant
- Deans' Office Assistant
- Fine Arts Assistant
- Health Office Assistant
- Innovation & Learning Hub Assistant
- Main Office Assistant
- Math Lab Assistant
- Performing Arts Assistant
- Science Lab Assistant
- Student Services Assistant
- World Language Lab Assistant

## Waiving Recommended Placement

While uncommon and not advised, there is a waiver process in February and August for changing the placement recommended by the classroom teacher. The process includes a discussion with the appropriate Division Head to discuss data, placement recommendations, and course/level expectations.

Please note: Level changes are subject to approval from the appropriate Division Head and space availability per course. For these reasons, not all requests can be guaranteed.

## Withdrawal Procedures

When a student withdraws from school or transfers to another school, a withdrawal form must be obtained from the Student Services Office. A parent or guardian must sign the form, the LZHS Bookkeeper will accept the return of educational materials, teachers will determine a grade to date and sign the release form for the student. When applicable, upon completion of the withdrawal procedure, official records will be sent to the new school.





# COLLEGE & UNIVERSITY PARTNERSHIPS AND DUAL CREDIT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## PROGRAM DESCRIPTION

Lake Zurich High School forms partnerships with colleges and universities with the mission of providing all students an opportunity to earn dual credit (LZHS credit and college/university credit) while in high school. These partnerships allow students to explore fields of interest, gain college/university-level experience, and potentially earn ISBE-approved College & Career Pathway Endorsements on their LZHS transcript. Please see below for definitions and information specific to each area of interest.

## COLLEGE & UNIVERSITY PARTNERSHIPS

College of Lake County  
Lake County Tech Campus  
Eastern Illinois University  
University of Illinois

LZHS partners with these colleges and universities to provide the following opportunities for students:

- College of Lake County
  - Course offerings across the following Divisions: Global Studies, Innovation & Career Pathways, Literacy & Performing Arts, Mathematics & Computer Science, Physical Development & Wellness, Science
- Lake County Tech Campus
  - Tech Campus is an excellent opportunity for students to attend classes in a specific career training program. The Tech Campus is regarded as one of the best career and technical education training facilities in the Midwest with a highly qualified staff dedicated to excellence in career and technical education. LZHS students may choose from a plethora of programs as they explore their career interests/goals. Tech Campus offers dual credit in conjunction with the College of Lake County (CLC) and Missouri University of Science and Technology (Missouri S&T) in a number of different programs. For more information, [CLICK HERE](#).
- Eastern Illinois University
  - Course offerings in the Global Studies Division (World Languages)
- University of Illinois
  - Course offerings in the Mathematics & Computer Science Division

For specific information about any of these opportunities, please refer to the course descriptions.

## DUAL CREDIT

Enrolling in a dual credit course not only provides an opportunity for LZHS students to earn early college credit, but it can reduce college costs and facilitate the transition between high school and college. It is important to note that many dual credit course offerings have specific prerequisites and carry a fee, which are specifically noted in the course descriptions.

Additionally, we recommend students and families ensure proper credit transfer by using Transferology, a free online resource that assists students with finding answers to common credit transfer questions. To visit the Transferology website, [CLICK HERE](#).

Dual Credit classes are college-level classes that provide both high school and college credit at the same time





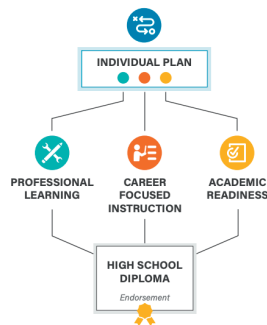
# ISBE Career Pathway Endorsements

ILLINOIS' COLLEGE AND CAREER PATHWAY ENDORSEMENT (CCPE) SYSTEM IS A CORNERSTONE STRATEGY OF THE POSTSECONDARY & WORKFORCE READINESS ACT TO INCREASE THE NUMBER OF ILLINOIS HIGH SCHOOL GRADUATES PREPARED FOR POSTSECONDARY EDUCATION AND FUTURE CAREERS. TO EARN A CCPE ON A HIGH SCHOOL TRANSCRIPT, A STUDENT MUST:

- COMPLETE AN INDIVIDUALIZED LEARNING PLAN
- ENGAGE IN A CAREER-FOCUSED INSTRUCTIONAL SEQUENCE (INCLUDING A MINIMUM OF 6 HOURS OF EARLY COLLEGE CREDIT)
- PARTICIPATE IN WORK-BASED LEARNING
- DEMONSTRATE READINESS FOR COLLEGE-LEVEL READING AND MATH



## College and Career Pathway Endorsement Framework



### INDIVIDUAL PLAN

Each student completing an endorsement must have an individualized plan, which includes college planning linked to early understanding of career goals, financial aid, resume, and personal statement.

### PROFESSIONAL LEARNING

Awareness, exploration, and preparation activities that provide opportunities for students to interact with adults in their workplace

9th	10th	11th	12th
At least 2 career exploration activities or 1 intensive experience		60 cumulative hours of paid or credit supervised career development experience with a professional skills assessment	
At least 2 team-based challenges with adult mentoring			

↑  
Through these experiences, a student gains essential employability and technical competencies in their identified sector.  
↓

### CAREER-FOCUSED INSTRUCTIONAL SEQUENCE

Two years of secondary coursework, or equivalent competencies, that articulate to a postsecondary credential with labor market value. Must include at least 6 hours of early college credit.

9th	10th	11th	12th
Orientation / Introduction		Skill Development	
		Capstone / Advanced Courses	

### ACADEMIC READINESS

Ready for non-remedial coursework in reading and math by high school graduation through criteria defined by district and local community college

## ***Students who have earned a Career Pathway Endorsement...***

- graduate high school with a set of foundational skills for all careers
- have engaged in real world workplace experiences, on the job project based learning, and team challenges
- have foundational employability skills making them highly valuable in the workplace
- are accelerated toward the industry sector due to focused coursework
- are potentially more committed to their major and program when they enter the postsecondary level
- are academically ready for college, placing into college level math and English
- have passed career focused college courses preparing them for postsecondary level academic rigor

# Career Pathway Endorsements



Career Focused Courses

ORIENTATION /  
INTRODUCTION  
Grades 9–10

SKILL  
DEVELOPMENT  
Grades 10–12

CAPSTONE /  
ADVANCED  
Grades 12



POSTSECONDARY  
COURSES  
Recommended 1st Year



Accounting

## Finance & Business Services

Introduction to  
Business

College Accounting I  
(LZHS)

College Accounting II  
(LZHS)

Introduction To Business  
Principles of Macroeconomics  
Continue College Sequence



Engineering

Industrial  
Technology

Welding/  
Fabrication

## Manufacturing, Engineering, Technology, & Trades

Introduction to  
Engineering

Engineering Design  
(LZHS)

Advanced Engineering  
&  
Senior Engineering  
(LZHS)

Introduction to AutoCAD  
Continue College Sequence

Principles of Robotics

Welding/Fabrication I  
(Advanced Technology Center (ATC))

Industrial Technology  
(Advanced Technology Center (ATC))

DC Circuit Fundamentals  
AC Fundamentals  
Continue College Sequence

Introduction to  
Business

Welding/Fabrication II  
(Advanced Technology Center (ATC))

General Welding II  
Basic Metallurgy I  
Continue College Sequence



Criminal  
justice

Education

## Human & Public Services

Law

Law Enforcement & CSI

Criminal Justice  
(Tech Campus)

Introduction to Criminal Justice  
Introduction to Psychology  
Continue College Sequence

Child  
Development

Early Childhood III:  
Creative Activities

Introduction to Teaching

Math for Elementary Teaching I  
Child Development for Educators  
Continue College Sequence



Information  
Technology

Cybersecurity

## Information Technology

PLTW Computer Science  
Essentials

PLTW AP Computer  
Science Principles  
(LZHS)

PLTW AP Computer  
Science A  
(LZHS)

Computer Science I  
Computer Science II  
Continue College Sequence

MobileMakers (IOS)

Cybersecurity  
(Tech Campus)

Introduction to Computers I  
Intro to Programming Concepts  
Continue College Sequence



Genetics

Certified  
Nurse  
Assisting

Emergency  
Medical  
Service

Biomedical  
Science

## Health Sciences & Technology

Anatomy & Physiology

Genetics & Society  
(LZHS)

AP Biology  
(LZHS)

General Biology I & General Chemistry I  
General Biology II & General Chemistry II  
Continue College Sequence

Medical Assisting or  
Emergency Medical  
Services  
(Tech Campus)

Certified Nurse Assisting  
(CNA)  
(Tech Campus)

Human Form & Function  
Pharmacology  
Continue College Sequence

Firefighting or  
Medical Assisting  
(Tech Campus)

Emergency Medical  
Services (EMS)  
(Tech Campus)

Medical Terminology  
Pharmacology  
Continue College Sequence

Biomedical Science I  
(Tech Campus)

Biomedical Science II  
(Tech Campus)

General Biology I & General Chemistry I  
General Biology II & General Chemistry II  
Continue College Sequence



Work-  
based  
Learning

Career  
Exploration

Internship (60 hrs) or INCubatorEdu  
(Hours may be met through Tech Campus)

Internship or  
Apprenticeship

Team-based Challenges  
(Within coursework, FBLA, SkillsUSA)



# Finance & Business Services Pathway Competencies



## TOP 10 TECHNICAL COMPETENCY STATEMENTS FOR FINANCE & BUSINESS SERVICES



<b>Cash &amp; Capital Principles</b>	Students can use their understanding of the nature of cash, monetary systems, and the value of money in order to recognize the risk, return, and opportunity cost associated with capital.
<b>Technical Applications</b>	Students can use their understanding of spreadsheets and accounting software to maintain, update, and retrieve data from records.
<b>Project Management</b>	Students can use their understanding of time management and organization to set timely and measurable goals leading to project completion.
<b>Principles of Economics &amp; Business</b>	Students can use their understanding of micro- and macro-economics to understand how an economy functions locally and globally.
<b>Financial Reporting</b>	Students can use their understanding of financial statements to assess a business's financial information.
<b>Financial Statements</b>	Students can use their understanding of financial statements to prepare and interpret balance sheets, income statements, cash flow statements, and retained earnings.
<b>Customer Care &amp; Marketing</b>	Students can use their understanding of market demands to meet the needs of a client.
<b>Business Operations</b>	Students can use their understanding of transaction management to perform business operations.
<b>Principals of Customer Relationship Management</b>	Students can use their understanding of customer communication and customer relationship management software to attract new customers and sustain existing customers.
<b>Fundamentals of Sales</b>	Students can use their understanding of personalized service and market demands to secure successful sales interactions.



## TOP 10 CROSS-SECTOR ESSENTIAL EMPLOYABILITY COMPETENCY STATEMENTS

<b>Teamwork &amp; Conflict Resolution</b>	Students can use their understanding of working cooperatively with others to complete work assignments and achieve mutual goals.
<b>Communication</b>	<b>Verbal:</b> Students can use their understanding of English grammar and public speaking, listening, and responding, convey an idea, express information, and be understood by others. <b>Written:</b> Students can use their understanding of standard business English to ensure that written work is clear, direct, courteous, and grammatically correct. <b>Digital:</b> Students can use their understanding of email, keyboarding, word processing, and digital media to convey work that is clear, direct, courteous, and grammatically correct.
<b>Problem Solving</b>	Students can use their critical thinking skills to generate and evaluate solutions as they relate to the needs of the team, customer, and company.
<b>Decision Making</b>	Students can use their understanding of problem solving to implement and communicate solutions.
<b>Critical Thinking</b>	Students can use their understanding of logic and reasoning to analyze and address problems.
<b>Adaptability &amp; Flexibility</b>	Students can use their understanding of workplace change and variety to be open to new ideas and handle ambiguity.
<b>Initiative &amp; Self-Drive</b>	Students can use their understanding of goal setting and personal impact to achieve professional goals and understand personal impact.
<b>Reliability &amp; Accountability</b>	Students can use their understanding of commitment, time management, and follow through to ensure that a professional team functions properly and meets collective goals.
<b>Cultural Competence</b>	Students can use their understanding of diversity and inclusion to communicate and work effectively across a multitude of abilities, cultures, and backgrounds.
<b>Planning &amp; Organizing</b>	Students can use their understanding of time management to plan effectively and accomplish assigned tasks.

## ENTREPRENEURIAL COMPETENCIES

### Principles of Entrepreneurship

Students can apply their understanding of the process and characteristics of business development and promotion in order to apply strategies of innovation to personal and professional business pursuits.

### Innovation & Invention

Students can use their understanding of idea generation, design thinking, product and business development in order to introduce and process new and effective ideas.

### Growth Mindset

Students can use their understanding of learning from challenges, set-backs, and failure in order to adapt strategies and continue efforts to achieve personal goals.





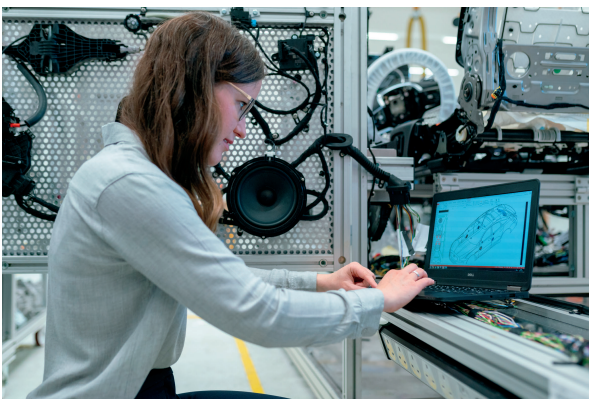
# Manufacturing, Engineering, Technology, & Trades Pathway Competencies



## MANUFACTURING, ENGINEERING, TECHNOLOGY & TRADES

### TOP 10 TECHNICAL COMPETENCY STATEMENTS FOR ADVANCED MANUFACTURING & ENGINEERING

<b>Equipment Safety</b>	Students can use their understanding of equipment usage, practices, and procedures to maintain a healthy, safe, and secure work environment.
<b>Manufacturing Environment</b>	Students can use their understanding of workstations, tools, and equipment operations to safely navigate a manufacturing environment.
<b>Personal Health &amp; Safety</b>	Students can use their understanding of personal safety and environmental regulations to comply with local, federal, and company health/safety demands.
<b>Spatial Reasoning</b>	Students can use their understanding of objects in relation to one another to understand three-dimensional imaging.
<b>Process, Design, &amp; Development</b>	Students can use their understanding of technical drawings and schematics to complete the design and development process.
<b>Installation</b>	Students can use their understanding of tools to assemble and disassemble simple tools.
<b>Customer Focus</b>	Students can use their understanding of communication and project management to understand client needs and complete project accordingly.
<b>Quality Assurance &amp; Continuous Improvement</b>	Students can use their understanding of product and process to meet quality systems requirements as defined by customer specifications.
<b>Digital Manufacturing</b>	Students can use their understanding of digital manufacturing tools and computer-based programs to complete the design and develop implementation process.
<b>Supply Chain Logistics</b>	Students can use their understanding of materials, suppliers, and internal systems to plan and monitor movement and storage of materials and products.



### TOP 10 CROSS-SECTOR ESSENTIAL EMPLOYABILITY COMPETENCY STATEMENTS

<b>Teamwork &amp; Conflict Resolution</b>	Students can use their understanding of working cooperatively with others to complete work assignments and achieve mutual goals.
<b>Communication</b>	<b>Verbal:</b> Students can use their understanding of English grammar and public speaking, listening, and responding, convey an idea, express information, and be understood by others. <b>Written:</b> Students can use their understanding of standard business English to ensure that written work is clear, direct, courteous, and grammatically correct. <b>Digital:</b> Students can use their understanding of email, keyboarding, word processing, and digital media to convey work that is clear, direct, courteous, and grammatically correct.
<b>Problem Solving</b>	Students can use their critical thinking skills to generate and evaluate solutions as they relate to the needs of the team, customer, and company.
<b>Decision Making</b>	Students can use their understanding of problem solving to implement and communicate solutions.
<b>Critical Thinking</b>	Students can use their understanding of logic and reasoning to analyze and address problems.
<b>Adaptability &amp; Flexibility</b>	Students can use their understanding of workplace change and variety to be open to new ideas and handle ambiguity.
<b>Initiative &amp; Self-Drive</b>	Students can use their understanding of goal setting and personal impact to achieve professional goals and understand personal impact.
<b>Reliability &amp; Accountability</b>	Students can use their understanding of commitment, time management, and follow through to ensure that a professional team functions properly and meets collective goals.
<b>Cultural Competence</b>	Students can use their understanding of diversity and inclusion to communicate and work effectively across a multitude of abilities, cultures, and backgrounds.
<b>Planning &amp; Organizing</b>	Students can use their understanding of time management to plan effectively and accomplish assigned tasks.

### ENTREPRENEURIAL COMPETENCIES

#### Principles of Entrepreneurship

Students can apply their understanding of the process and characteristics of business development and promotion in order to apply strategies of innovation to personal and professional business pursuits.

#### Innovation & Invention

Students can use their understanding of idea generation, design thinking, product and business development in order to introduce and process new and effective ideas.

#### Growth Mindset

Students can use their understanding of learning from challenges, set-backs, and failure in order to adapt strategies and continue efforts to achieve personal goals.



# Human & Public Services: Education Pathway Competencies



## TOP 10 TECHNICAL COMPETENCY STATEMENTS FOR EDUCATION AS PART OF HUMAN AND PUBLIC SERVICES

### PLANNING AND PREPARATION

<b>Childhood &amp; Student Development</b>	Students can use their understanding of learner development theory from early childhood through adult learning including cognitive development, self-esteem, motivation, perseverance, and intellectual risk taking in order to provide appropriate content and supports for students.
<b>Curriculum &amp; Program Design</b>	Students can use their understanding of effective teaching strategies, scope, and sequence in order to design a logical curriculum and classroom experience that meets individual student and group academic readiness.
<b>Curriculum Relevance &amp; Collaboration</b>	Students can use their understanding of current events, cross-curriculum connections, and out-of-classroom realities to create linkages among content areas and learners' lived experiences.

### CLASSROOM ENVIRONMENT

<b>Managing &amp; Monitoring Learning</b>	Students can describe and demonstrate strategies to enrich, maintain, and alter learning environments in order to engage and motivate student learning.
<b>Equitable Treatment</b>	Students can use their understanding of diversity of language, culture, and ability to ensure an inclusionary environment for all students to learn.
<b>Learning Environment</b>	Students can use their understanding of motivational, social and physical environmental elements to optimize learning and establish a positive environment for all learners.

### PROFESSIONAL RESPONSIBILITIES

<b>Citizenship, Family, &amp; Community Relationships</b>	Students can use their understanding of community and family engagement in order to connect students to opportunities and effectively support learning.
<b>Health, Safety, &amp; Legal Responsibilities</b>	Students can use their understanding of health, safety, and legal expectations in order to adhere to organizational procedures, local, state, and federal law.

### INSTRUCTION

<b>Evaluation &amp; Assessment</b>	Students can use their understanding of learning standard and multiple measures and methods to demonstrate learning in order to evaluate growth in learning and adjust to learners' needs.
<b>Observation &amp; Adaptation</b>	Students can use their understanding of individual student and classroom observation in order to adjust curriculum to meet individual and group learning needs.



## TOP 10 CROSS-SECTOR ESSENTIAL EMPLOYABILITY COMPETENCY STATEMENTS

<b>Teamwork &amp; Conflict Resolution</b>	Students can use their understanding of working cooperatively with others to complete work assignments and achieve mutual goals.
<b>Communication</b>	<b>Verbal:</b> Students can use their understanding of English grammar and public speaking, listening, and responding, convey an idea, express information, and be understood by others. <b>Written:</b> Students can use their understanding of standard business English to ensure that written work is clear, direct, courteous, and grammatically correct. <b>Digital:</b> Students can use their understanding of email, keyboarding, word processing, and digital media to convey work that is clear, direct, courteous, and grammatically correct.
<b>Problem Solving</b>	Students can use their critical thinking skills to generate and evaluate solutions as they relate to the needs of the team, customer, and company.
<b>Decision Making</b>	Students can use their understanding of problem solving to implement and communicate solutions.
<b>Critical Thinking</b>	Students can use their understanding of logic and reasoning to analyze and address problems.
<b>Adaptability &amp; Flexibility</b>	Students can use their understanding of workplace change and variety to be open to new ideas and handle ambiguity.
<b>Initiative &amp; Self-Drive</b>	Students can use their understanding of goal setting and personal impact to achieve professional goals and understand personal impact.
<b>Reliability &amp; Accountability</b>	Students can use their understanding of commitment, time management, and follow through to ensure that a professional team functions properly and meets collective goals.
<b>Cultural Competence</b>	Students can use their understanding of diversity and inclusion to communicate and work effectively across a multitude of abilities, cultures, and backgrounds.
<b>Planning &amp; Organizing</b>	Students can use their understanding of time management to plan effectively and accomplish assigned tasks.

## ENTREPRENEURIAL COMPETENCIES

### Principles of Entrepreneurship

Students can apply their understanding of the process and characteristics of business development and promotion in order to apply strategies of innovation to personal and professional business pursuits.

### Innovation & Invention

Students can use their understanding of idea generation, design thinking, product and business development in order to introduce and process new and effective ideas.

### Growth Mindset

Students can use their understanding of learning from challenges, set-backs, and failure in order to adapt strategies and continue efforts to achieve personal goals.



# Human & Public Services Pathway Competencies

## INTRODUCTION TO HUMAN AND PUBLIC SERVICES Key Competencies

<b>Ethics</b>	<ul style="list-style-type: none"> <li>Students will be able to identify the ethical and legal issues facing the profession.</li> <li>Students will be able to explain professional and ethical behavior that adheres to a variety of ethics and professional standards within human and public services.</li> </ul>
<b>Roles and Responsibilities</b>	<ul style="list-style-type: none"> <li>Students will be able to describe the importance of a reflective professional development plan to promote professional growth and cultural responsiveness.</li> <li>Students will be able to compare and contrast types of human services programs involving family support, infant and early childhood, mental health, child welfare, aging services, and home visiting.</li> <li>Students will be able to explain the importance of professionalism in a human service setting.</li> <li>Students will be able to identify the role of the human services professional within the child, adult, older adult, family, community, and global context.</li> <li>Students will be able to identify the basic concepts of human services.</li> <li>Students will be able to identify various careers in the profession.</li> </ul>
<b>Historical Context</b>	<ul style="list-style-type: none"> <li>Students will be able to identify historic and current systemic, structural inequities that impact individuals, families, and communities.</li> <li>Students will be able to identify social, economic, political, and cultural factors within American society which influence how Human Service problems are identified and how services and fields of practice are created to address these problems.</li> <li>Students will be able to identify historical variables which influenced the development of human services in contemporary America.</li> </ul>
<b>Theories and Techniques</b>	<ul style="list-style-type: none"> <li>Students will be able to identify relevant theories, across all domains, that impact human services work.</li> <li>Students will be able to describe the techniques and tools used in a human services program to support individuals, families, and communities.</li> </ul>
<b>Inclusion</b>	<ul style="list-style-type: none"> <li>Students will understand the impact of policies and programs on diverse populations and the principles of social and economic justice.</li> <li>Students will be able to explain how cultural responsiveness and cultural humility is necessary in human service work.</li> <li>Students will be able to identify how cultural diversity and the unique cultural influences human services work with individuals, families and communities.</li> <li>Students will be able to understand approaches to social change, social movements, organizational policy and reform.</li> </ul>



### TOP 10 CROSS-SECTOR ESSENTIAL EMPLOYABILITY COMPETENCY STATEMENTS

<b>Teamwork &amp; Conflict Resolution</b>	Students can use their understanding of working cooperatively with others to complete work assignments and achieve mutual goals.
<b>Communication</b>	<p><b>Verbal:</b> Students can use their understanding of English grammar and public speaking, listening, and responding, convey an idea, express information, and be understood by others.</p> <p><b>Written:</b> Students can use their understanding of standard business English to ensure that written work is clear, direct, courteous, and grammatically correct.</p> <p><b>Digital:</b> Students can use their understanding of email, keyboarding, word processing, and digital media to convey work that is clear, direct, courteous, and grammatically correct.</p>
<b>Problem Solving</b>	Students can use their critical thinking skills to generate and evaluate solutions as they relate to the needs of the team, customer, and company.
<b>Decision Making</b>	Students can use their understanding of problem solving to implement and communicate solutions.
<b>Critical Thinking</b>	Students can use their understanding of logic and reasoning to analyze and address problems.
<b>Adaptability &amp; Flexibility</b>	Students can use their understanding of workplace change and variety to be open to new ideas and handle ambiguity.
<b>Initiative &amp; Self-Drive</b>	Students can use their understanding of goal setting and personal impact to achieve professional goals and understand personal impact.
<b>Reliability &amp; Accountability</b>	Students can use their understanding of commitment, time management, and follow through to ensure that a professional team functions properly and meets collective goals.
<b>Cultural Competence</b>	Students can use their understanding of diversity and inclusion to communicate and work effectively across a multitude of abilities, cultures, and backgrounds.
<b>Planning &amp; Organizing</b>	Students can use their understanding of time management to plan effectively and accomplish assigned tasks.

### ENTREPRENEURIAL COMPETENCIES

#### Principles of Entrepreneurship

Students can apply their understanding of the process and characteristics of business development and promotion in order to apply strategies of innovation to personal and professional business pursuits.

#### Innovation & Invention

Students can use their understanding of idea generation, design thinking, product and business development in order to introduce and process new and effective ideas.

#### Growth Mindset

Students can use their understanding of learning from challenges, set-backs, and failure in order to adapt strategies and continue efforts to achieve personal goals.





# Information Technology Pathway Competencies

## INFORMATION TECHNOLOGY

### TOP 10 TECHNICAL COMPETENCY STATEMENTS FOR INFORMATION TECHNOLOGY

<b>Basic Principles of Information Technology Concepts, Systems, Platforms &amp; Tools</b>	Students can use their understanding of fundamental IT concepts, systems, platforms, tools, and technology to understand the common roles of IT professionals.
<b>Security</b>	Students can use their understanding of malware, firewall, IDS, and IPS to recognize and describe basic threats to networked computers.
<b>Logic &amp; Fundamentals of Computer Languages</b>	Students can use their understanding of how computer languages communicate to build basic mobile and web applications.
<b>Routing &amp; Network Configuration</b>	Students can use their understanding of common networking protocols to explain the purpose of routing, network configuration, and monitoring.
<b>User &amp; Customer Support</b>	Students can use their understanding of the range of services used to provide assistance and technical support to help users implement and solve problems related to information technology.
<b>Basic Principles of Hardware</b>	Students can use their understanding of communication systems hardware to describe the purpose and function of fundamental end user devices, switches, routers, wireless access points, etc.
<b>Risk Management &amp; Information Assurance</b>	Students can use their understanding of the standards and applications needed to protect the confidentiality, integrity, and availability of information and information systems.
<b>Basic Principles of Software Development</b>	Students can use their understanding of designing, writing, testing, and maintaining source code of computer programs to manage and maintain software.
<b>Networks</b>	Students can use their understanding of hardware and software to facilitate communication between people and computer systems.
<b>Basics of Virtualization &amp; Cloud Computing</b>	Students can use their understanding of the features, benefits, and concepts of virtualization and cloud computing to differentiate among types of cloud services.



### TOP 10 CROSS-SECTOR ESSENTIAL EMPLOYABILITY COMPETENCY STATEMENTS

<b>Teamwork &amp; Conflict Resolution</b>	Students can use their understanding of working cooperatively with others to complete work assignments and achieve mutual goals.
<b>Communication</b>	<b>Verbal:</b> Students can use their understanding of English grammar and public speaking, listening, and responding, convey an idea, express information, and be understood by others. <b>Written:</b> Students can use their understanding of standard business English to ensure that written work is clear, direct, courteous, and grammatically correct. <b>Digital:</b> Students can use their understanding of email, keyboarding, word processing, and digital media to convey work that is clear, direct, courteous, and grammatically correct.
<b>Problem Solving</b>	Students can use their critical thinking skills to generate and evaluate solutions as they relate to the needs of the team, customer, and company.
<b>Decision Making</b>	Students can use their understanding of problem solving to implement and communicate solutions.
<b>Critical Thinking</b>	Students can use their understanding of logic and reasoning to analyze and address problems.
<b>Adaptability &amp; Flexibility</b>	Students can use their understanding of workplace change and variety to be open to new ideas and handle ambiguity.
<b>Initiative &amp; Self-Drive</b>	Students can use their understanding of goal setting and personal impact to achieve professional goals and understand personal impact.
<b>Reliability &amp; Accountability</b>	Students can use their understanding of commitment, time management, and follow through to ensure that a professional team functions properly and meets collective goals.
<b>Cultural Competence</b>	Students can use their understanding of diversity and inclusion to communicate and work effectively across a multitude of abilities, cultures, and backgrounds.
<b>Planning &amp; Organizing</b>	Students can use their understanding of time management to plan effectively and accomplish assigned tasks.

### ENTREPRENEURIAL COMPETENCIES

#### Principles of Entrepreneurship

Students can apply their understanding of the process and characteristics of business development and promotion in order to apply strategies of innovation to personal and professional business pursuits.

#### Innovation & Invention

Students can use their understanding of idea generation, design thinking, product and business development in order to introduce and process new and effective ideas.

#### Growth Mindset

Students can use their understanding of learning from challenges, set-backs, and failure in order to adapt strategies and continue efforts to achieve personal goals.



# Health Sciences & Technology Pathway Competencies

## HEALTH SCIENCES & TECHNOLOGY

### TOP 10 TECHNICAL COMPETENCY STATEMENTS FOR HEALTH SCIENCES & TECHNOLOGY



<b>Medical Terminology</b>	Students can use their understanding of basic medical terminology, including abbreviations, acronyms, and diagnostic terms, to communicate effectively with healthcare personnel and patients.
<b>Healthcare Industry &amp; Culture</b>	Students can use their understanding of the basic components and culture of the health industry to understand the purpose and function of key stakeholders, practices, practitioners, and regulations.
<b>Healthcare Delivery Practices</b>	Students can use their understanding of the practices, procedures, and personnel involved in delivering quality patient care to evaluate the appropriateness of a plan, instructions, or assigned task.
<b>Healthcare Industry Ethics</b>	Students can use their understanding of confidentiality, morality, and legal concepts to evaluate and apply the merits, risks, and social concerns to workplace decisions.
<b>Health Professions Licensure</b>	Students can use their understanding of education requirements, licensure, and certification to ensure proper adherence to regulations that guide service delivery.
<b>Emergency Response</b>	Students can use their understanding of emergency procedures and protocols to respond to and expedite safety in an emergency situation.
<b>Healthcare Confidentiality</b>	Students can use their understanding of HIPPA to adhere to legal requirements and maintain confidentiality.
<b>Healthcare Personnel &amp; Roles</b>	Students can use their understanding of the practices, procedures, and personnel used to deliver quality patient care to identify one's role on a team and within the overall health environment.
<b>Healthcare Sanitation</b>	Students can use their understanding of sanitation and health regulations to ensure that healthcare facilities and tools meet standards for cleanliness.
<b>Healthcare Rules &amp; Regulation</b>	Students can use their understanding of basic laws and regulations (Patient Bill of Rights, CLIA, EMTALA, OSHA, etc.) to meet accreditation standards and to obey the law.



### TOP 10 CROSS-SECTOR ESSENTIAL EMPLOYABILITY COMPETENCY STATEMENTS

<b>Teamwork &amp; Conflict Resolution</b>	Students can use their understanding of working cooperatively with others to complete work assignments and achieve mutual goals.
<b>Communication</b>	<b>Verbal:</b> Students can use their understanding of English grammar and public speaking, listening, and responding, convey an idea, express information, and be understood by others. <b>Written:</b> Students can use their understanding of standard business English to ensure that written work is clear, direct, courteous, and grammatically correct. <b>Digital:</b> Students can use their understanding of email, keyboarding, word processing, and digital media to convey work that is clear, direct, courteous, and grammatically correct.
<b>Problem Solving</b>	Students can use their critical thinking skills to generate and evaluate solutions as they relate to the needs of the team, customer, and company.
<b>Decision Making</b>	Students can use their understanding of problem solving to implement and communicate solutions.
<b>Critical Thinking</b>	Students can use their understanding of logic and reasoning to analyze and address problems.
<b>Adaptability &amp; Flexibility</b>	Students can use their understanding of workplace change and variety to be open to new ideas and handle ambiguity.
<b>Initiative &amp; Self-Drive</b>	Students can use their understanding of goal setting and personal impact to achieve professional goals and understand personal impact.
<b>Reliability &amp; Accountability</b>	Students can use their understanding of commitment, time management, and follow through to ensure that a professional team functions properly and meets collective goals.
<b>Cultural Competence</b>	Students can use their understanding of diversity and inclusion to communicate and work effectively across a multitude of abilities, cultures, and backgrounds.
<b>Planning &amp; Organizing</b>	Students can use their understanding of time management to plan effectively and accomplish assigned tasks.

### ENTREPRENEURIAL COMPETENCIES

#### Principles of Entrepreneurship

Students can apply their understanding of the process and characteristics of business development and promotion in order to apply strategies of innovation to personal and professional business pursuits.

#### Innovation & Invention

Students can use their understanding of idea generation, design thinking, product and business development in order to introduce and process new and effective ideas.

#### Growth Mindset

Students can use their understanding of learning from challenges, set-backs, and failure in order to adapt strategies and continue efforts to achieve personal goals.





# INTERNSHIP OPPORTUNITIES

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## DISTRICT DEVELOPMENT COORDINATOR

**Ms. Ali Finn**

Ali.Finn@lz95.org

(847) 540-4975

## LZHS ADMINISTRATIVE LIAISON

**Ms. Niki Jensen**

Nicole.Jensen@lz95.org

(847) 540-4145

## PROGRAM DESCRIPTION

Internships are one of the best ways to experience a career and to gain valuable core skills that students will need to be successful after graduation. An internship provides students a work based learning experience. Internships are offered during the school year and over the summer. They occur in a workplace and require a minimum of 60 total hours.

Lake Zurich High School offers a variety of courses to help students engage in authentic learning experiences in order to develop workplace skills that align to the district's values, including collaboration, continuous improvement, high expectations, integrity, perseverance, equity, and respect. Students who have benefited from these experiences have been afforded an opportunity to evaluate potential career fields, build a professional network, and receive critical feedback from experienced professionals. Students interested in enrolling in one of these courses should speak to their counselor so that we may assist you align coursework with your four-year plan and post-secondary goals. For additional information, please scan the QR code to access the LZ95 Internship Handbook.

## INTERNSHIP HANDBOOK

SCAN ME



# INTERNSHIP COURSE OFFERINGS

## General Internship

**Department:** Innovation & Career Pathways

**Course Number:** 7900-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** .5 per semester

**Credit Type:** CP

**Prerequisite:** None

**ISBE Career Pathway:** None

**NCAA Approved:** No

The General Internship is an authentic work-based learning experience consisting of 60 hours of career development. The internship provides students the opportunity to apply and enhance technical competencies while demonstrating essential employability skills in the workplace.

Workplace Experience courses provide students with work experience in a field related to their interests. Goals are typically set cooperatively by the student, teacher, and employer. These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

This course is offered in a blended learning format.

## Finance & Business Services Internship

**Department:** Innovation & Career Pathways

**Course Number:** 7930-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** .5 per semester

**Credit Type:** CP

**Prerequisite:** None

**ISBE Career Pathway:** Finance & Business Services

**NCAA Approved:** No

This Internship is an authentic work-based learning experience consisting of 60 hours of career development in the area of Finance and Business Services. The internship provides students the opportunity to apply and enhance technical competencies while demonstrating essential employability skills in the workplace.

Students interested in any of the following careers may consider pursuing an internship in this pathway:

- Accounting

This course is offered in a blended learning format.

## Human & Public Services Internship

**Department:** Innovation & Career Pathways

**Course Number:** 7910-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** .5 per semester

**Credit Type:** CP

**Prerequisite:** None

**ISBE Career Pathway:** Human & Public Services

**NCAA Approved:** No

This Internship is an authentic work-based learning experience consisting of 60 hours of career development in the area of Human and Public Services. The internship provides students the opportunity to apply and enhance technical competencies while demonstrating essential employability skills in the workplace.

Students interested in any of the following careers may consider pursuing an internship in this pathway:

- Early Childhood Education
- Criminal Justice & Law Enforcement

This course is offered in a blended learning format.

## METT (Manufacturing, Engineering, Technology, & Trades) Internship

**Department:** Innovation & Career Pathways

**Course Number:** 7940-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** .5 per semester

**Credit Type:** CP

**Prerequisite:** None

**ISBE Career Pathway:** Manufacturing, Engineering, Technology, & Trades

**NCAA Approved:** No

This Internship is an authentic work-based learning experience consisting of 60 hours of career development in the area of Manufacturing, Engineering, Technology, and Trades. The internship provides students the opportunity to apply and enhance technical competencies while demonstrating essential employability skills in the workplace.

Students interested in any of the following careers may consider pursuing an internship in this pathway:

- Engineering
- Industrial Technology
- Construction Skills & Management
- Laser Technology
- Welding/Fabrication

This course is offered in a blended learning format.

## Health Sciences & Technology Internship

**Department:** Innovation & Career Pathways

**Course Number:** 7920-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** .5 per semester

**Credit Type:** CP

**Prerequisite:** None

**ISBE Career Pathway:** Health Sciences & Technology

**NCAA Approved:** No

This Internship is an authentic work-based learning experience consisting of 60 hours of career development in the area of Health Sciences and Technology. The internship provides students the opportunity to apply and enhance technical competencies while demonstrating essential employability skills in the workplace.

Students interested in any of the following careers may consider pursuing an internship in this pathway:

- Certified Nurse Assisting (CNA)
- Medical Assisting
- Biomedical Science
- Firefighting & EMS
- Genetics

This course is offered in a blended learning format.

## Agriculture, Food, & Natural Resources Internship

**Department:** Innovation & Career Pathways

**Course Number:** 7950-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** .5 per semester

**Credit Type:** CP

**Prerequisite:** None

**ISBE Career Pathway:** Agriculture, Food, & Natural Resources

**NCAA Approved:** No

This Internship is an authentic work-based learning experience consisting of 60 hours of career development in the area of Agriculture, Food, and Natural Resources. The internship provides students the opportunity to apply and enhance technical competencies while demonstrating essential employability skills in the workplace.

This course is offered in a blended learning format.

## Information Technology Internship

**Department:** Innovation & Career Pathways

**Course Number:** 7960-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** .5 per semester

**Credit Type:** CP

**Prerequisite:** None

**ISBE Career Pathway:** Information Technology

**NCAA Approved:** No

This Internship is an authentic work-based learning experience consisting of 60 hours of career development in the area of Information Technology. The internship provides students the opportunity to apply and enhance technical competencies while demonstrating essential employability skills in the workplace.

Students interested in any of the following careers may consider pursuing an internship in this pathway:

- Computer Science & Programming
- Cybersecurity
- Computer Support Services

This course is offered in a blended learning format.

## Arts & Communication Internship

**Department:** Innovation & Career Pathways

**Course Number:** 7970-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** .5 per semester

**Credit Type:** CP

**Prerequisite:** None

**ISBE Career Pathway:** Arts & Communication

**NCAA Approved:** No

This Internship is an authentic work-based learning experience consisting of 60 hours of career development in the area of Arts and Communications. The internship provides students the opportunity to apply and enhance technical competencies while demonstrating essential employability skills in the workplace.

This course is offered in a blended learning format.





# GLOBAL STUDIES

SOCIAL STUDIES  
WORLD LANGUAGES & CULTURES

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT  
SCHOOL DISTRICT 95 IS TO  
EMPOWER EVERY LEARNER TO  
ACHIEVE PERSONAL EXCELLENCE.

## DIVISION LEADER

**Mr. Ryan Shifley**  
Ryan.Shifley@lz95.org  
(847) 540-4349

## DIVISION LEADER BIO

*Ryan Shifley is in his first year serving as Global Studies Division Head at Lake Zurich High School. Previously Mr. Shifley served as the Social Studies Department Chair at Wauconda High School for 8 years. He earned his bachelor's degree in history at Purdue University and his masters in Educational Leadership through Concordia University.*

*Ryan currently teaches Human Geography, a course that focuses on the complexities of the world through local, national, regional, and global lenses. He can be found after school most days spending time with his wife and playing with his two young boys.*

## PROGRAM DESCRIPTION: SOCIAL STUDIES

Social Studies courses at Lake Zurich High School prepare students to become informed, responsible, and engaged citizens. To that end, teaching and learning occurs in engaging and empowering ways that aim to help students develop the knowledge, skills and dispositions necessary to address the important issues that they will confront throughout their lives. Students have the opportunity to experience four years of Social Studies courses in geography, the histories, political sciences, economics, behavioral sciences, and current issues.

- All students are required to complete two semesters of World Studies during their freshman year, two semesters of United States History during their junior year, and one semester of Government in their senior year.
- Lake Zurich High School strongly recommends additional Social Studies electives to prepare students for admission to the college or university of their choice upon graduation. Many colleges and universities require three or more credits of Social Studies for admission.
- In accordance with Illinois General Assembly Compiled Statutes (105 ILCS 5/27-3) and Public Act 099-0674, all students must successfully complete a United States Government/Civics course which meets the criteria listed below. These requirements will be met in College Prep, Honors, and AP Government courses at LZHS. If a student elects to take a government/civics course externally, it will only be approved if the course addresses this criteria.
  - Civics course content shall focus on government institutions, the discussion of current and controversial issues, service learning, and simulations of the democratic process (Sec. 27-22).
  - American patriotism and the principles of representative government, as enunciated in the American Declaration of Independence, the Constitution of the United States of America and the Constitution of the State of Illinois, and the proper use and display of the American flag, shall be taught in all public schools and other educational institutions supported or maintained in whole or in part by public funds. No student shall receive a certificate of graduation without passing a satisfactory examination upon such subjects. (105 ILCS 5/27-3)
- Students may take one of the following courses to fulfil the consumer education graduation requirement: Economics Honors or AP Economics
- LZHS Social Studies blended learning course offerings (as defined in the course descriptions below) follow a 3-2 model:
  - Three days of face-to-face instruction
  - Two days of flexible/virtual instruction
  - The teacher may require a student to attend all five days if a greater need for face-to-face instruction arises
  - Students may self-select participation in 4-5 days of face-to-face instruction

## RECOMMENDATION FOR PLACEMENT

- LZHS course sequences do not mandate that a student must stay on a given program or pathway throughout one's high school career. With demonstrated effective effort, motivation, and improved performance, a student may engage in a more rigorous course load or change course according to post-secondary goals during the course selection process.
- Recommendation for placement in any core course is based on performance and demonstration of effective effort. Each teacher monitors these two aspects and considers them in making a recommendation of placement for the student for the following year.
- Students, parents and guardians are welcome to contact the teacher or Global Studies Division Head if concern about the recommendation arises.

## PROGRAM DESCRIPTION: WORLD LANGUAGES & CULTURES

The World Languages & Cultures Division aims to help students develop strong communication skills in speaking, listening, reading, and writing. Our goal is to facilitate learning opportunities to help students learn about different cultures of the language they study, and to create connections between their community and other world communities.

Students are strongly encouraged to study 4–5 years of a World Language during high school as this can enhance their college and career opportunities.

Students will be prepared to take the language proficiency exam that may qualify them for the State Seal of Biliteracy.

## RECOMMENDATION FOR PLACEMENT

- LZHS course sequences do not mandate that a student must stay on a given program or pathway throughout one's high school career. With demonstrated effective effort, motivation, and improved performance, a student may engage in a more rigorous course load or change course according to post–secondary goals during the course selection process.
- Recommendation for placement in any core course is based on performance and demonstration of effective effort. Each teacher monitors these two aspects and considers them in making a recommendation of placement for the student for the following year.
- Students, parents and guardians are welcome to contact the teacher or Global Studies Division Head if concern about the recommendation arises.

## SOCIAL STUDIES COURSE OFFERINGS

### World Studies

**Department:** Social Studies

**Course Number:** 4100–00

**Open to Grade Level(s):** 9

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** [See Freshman Placement Guidelines](#)

**NCAA Approved:** Yes

If you think you will ever travel to Europe, Asia, the Middle East, or throughout the Americas, this is the class for you! In World Studies you will learn the history of different regions of the world, cultural history and gain insight into how the past has impacted current events and the modern world. World Studies is designed to promote critical thinking, learn to use evidence to support a claim, and develop higher level writing skills. This course may lead to a pathway towards a career in law, politics, education, international business, and beyond. Come with us on a voyage to learn about the world.

*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*

[CLICK HERE](#) to view the course video.

### Contemporary Global Issues

**Department:** Social Studies

**Course Number:** 4200–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** Yes

If you're interested in learning about current issues, Contemporary Global Issues (CGI) is for you. You'll learn to become "news lit fit", the ability to evaluate and understand the perspective and reliability of sources, and interact with information that promotes engagement in civic life. Throughout the semester, you will examine various types of media, investigate and analyze important local, national, and international issues, use sources to support and defend positions, and take informed action on a variety of issues. [CLICK HERE](#) to view the course video.

### World Studies Honors

**Department:** Social Studies

**Course Number:** 4110–00

**Open to Grade Level(s):** 9

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** [See Freshman Placement Guidelines](#)

**NCAA Approved:** Yes

Interested in learning about different regions of the world? Their culture, their customs, their history? Honors World Studies will take you on a trip around the world, taking a look at different regions of the world geographically and chronologically throughout history. Students will learn and use tools of historical analysis to address major questions about the world's past, present and future. The course is designed to engage students in history–based discussions where students will use historical thinking skills to address major questions about the world's past and determine how the past has impacted modern day. They will also practice analyzing documents and apply the information to historical writing.

[CLICK HERE](#) to view the course video.

### Conflict and Controversy of the 20th Century

**Department:** Social Studies

**Course Number:** 4210–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** Yes

What starts a war? What causes one country to invade another one? Conflict and Controversy is a one–semester course that examines these questions as well as events and actions that led to the major wars of the 20th century (1900–1999). In this class you will begin to understand why these wars started and how these same causes lead to wars today. Activities and assessments will focus on using primary and secondary sources to develop and support an argument. This skill will be helpful in future Social Studies courses, AP courses, and in college. [CLICK HERE](#) to view the course video.



## Human Geography

**Department:** Social Studies  
**Course Number:** 4230-00  
**Open to Grade Level(s):** 10, 11, 12  
**Credit Amount:** 1  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** Yes

Human Geography is a year-long course designed to help students understand the complexities of the world through local, national, regional, and global lenses. The course begins by addressing the core concept of human geography, "The Why of Where." For example, "Why does China discourage large families, while Niger encourages them?" Students will develop the skills necessary to analyze each of the following units through a geo-spatial perspective: Population, Migration, Culture, Ethnicity, Political Geography, and Economic Development. Students will use a variety of geo-technologies, digital platforms, and internet-based learning resources in order to display their learning. Students choosing this course may have an interest in the following career pathways: medical science, international business, international relations, international law, nongovernmental organizations.

[CLICK HERE](#) to view the course video.

## Economics Honors

**Department:** Social Studies  
**Course Number:** 4320-00  
**Open to Grade Level(s):** 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** Honors  
**Prerequisite:** None  
**NCAA Approved:** Yes

Economics Honors is a one-semester course designed as an introduction to the world of economics. This course includes elements of personal finance, economic theory, microeconomics (business level) and macroeconomics (our economy). Topics include economic choice, supply and demand, international economic systems, and fiscal and monetary policy. This course is intended to be the beginning of study for any student interested in the business world, or looking to learn concepts of individual decision making in the world of finance. Successful completion of Honors Economics satisfies the Consumer Education requirement for graduation.

[CLICK HERE](#) to view the course video.

## United States History

**Department:** Social Studies  
**Course Number:** 4300-00  
**Open to Grade Level(s):** 11  
**Credit Amount:** 1  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** Yes

United States History provides students with a framework for studying political, social, economic, and cultural issues, and for analyzing the impact these issues have had on American society. Students are asked to apply knowledge of trends and developments in American history to make historical assessments and evaluations. Topics of study will include the American Revolution, the Civil War, and America's role in world conflicts. In addition to being a graduation requirement, this class also serves as a pathway towards a career in law, politics, education, business, and more.

*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*

[CLICK HERE](#) to view the course video.

## Psychology

**Department:** Social Studies  
**Course Number:** 4340-00  
**Open to Grade Level(s):** 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** Yes

Psychology is a one-semester course that examines various fields and topics in the hybrid science of Psychology. Students will explore human behavior through readings, articles, and personal experiences. When appropriate, demonstrations and activities will be used to illustrate areas of study and help illuminate psychological concepts. This course is designed to introduce terms and concepts psychologists use, and to explain the significance of psychological findings for one's own life. This course investigates the human thought process, exploring everything from conformity and obedience to how brain chemicals affect the way we think and behave. Critical thinking and discussion connect the subject matter to students' everyday lives and facilitate a deeper understanding of our own thought processes. This is a course for anyone that is interested in how and why we think.

[CLICK HERE](#) to view the course video.

## United States History Honors

**Department:** Social Studies  
**Course Number:** 4310-00  
**Open to Grade Level(s):** 11  
**Credit Amount:** 1  
**Credit Type:** Honors  
**Prerequisite:** None  
**NCAA Approved:** Yes

United States History Honors demands that students be highly motivated and demonstrate reading and writing comprehension at a high level of proficiency. The course provides students with a framework for studying political, social, economic, and cultural issues, and for analyzing the impact these issues have had on American society. Students are asked to apply knowledge of trends and developments in American history to make historical assessments and evaluations. Major topics of study will include British domination of the North American continent, the American Revolution, the Civil War, the industrial development of the United States, the emergence of the United States as a world power, and the implementation of the United States strength upon the world. In addition to this class being a graduation requirement, this class also serves as a pathway towards a career in law, politics, education, business and more.

[CLICK HERE](#) to view the course video.

## Sociology

**Department:** Social Studies  
**Course Number:** 4350-00  
**Open to Grade Level(s):** 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** Yes

If you are interested in learning about how to understand people and their actions or how you became the person you are, Sociology is the class for you. Sociology is a one-semester course that studies our culture and the behavior of the people in it. You will begin to know how you became the person you are and learn to understand other people as well. This knowledge will be helpful all throughout your life in your personal interactions as well as in any career you choose. Upon developing an understanding of the field of Sociology, students will apply that knowledge to study the "why" behind cultural practices.

[CLICK HERE](#) to view the course video.

## Government

**Department:** Social Studies

**Course Number:** 4400–00

**Open to Grade Level(s):** 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** Yes

In this class you will learn about the legislative, executive, and judicial branches of government, how the US government was formed, as well as current events pertaining to the US government. There are a variety of careers in which a government background is essential, including but not limited to the President, a judge or lawyer, a congressional representative, a law enforcement agent, someone in international business, and a social studies or social sciences teacher. Students will complete the course with a better knowledge of how all levels of government affect them and their ability to affect government. Students will use critical thinking skills to examine civic responsibility, voting and political parties. Successful completion of this course fulfills the government graduation requirement.

[CLICK HERE](#) to view the course video.

## AP World History: Modern

**Department:** Social Studies

**Course Number:** 4800–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** [See Freshman Placement Guidelines](#)

**NCAA Approved:** Yes

In AP World History: Modern students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the following historical skills and practices: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. Students explore six themes throughout the course in order to make connections among historical developments in different times and places: human environment interactions, social structures, political organization, economic systems, cultural developments as well as technological innovations. This class may provide a pathway towards a career in law, politics, education, international business, and more.

[CLICK HERE](#) to view the course video.

## Government Honors

**Department:** Social Studies

**Course Number:** 4410–00

**Open to Grade Level(s):** 12

**Credit Amount:** 0.5

**Credit Type:** Honors

**Prerequisite:** None

**NCAA Approved:** Yes

Honors Government is a one-semester course that examines the structure of the United States government through its legislative, executive, and judicial branches. The course introduces students to careers that are in the political science, law, and history pathways. Students strive to become active citizens so they can effectively participate in the civic process. Along with the three branches, students will investigate issues such as political parties, voting, and elections. Honors Government is a fast pace look into our Constitution where students will be expected to synthesize information across the curriculum. Successful completion of this course fulfills the government graduation requirement.

This course is also offered in a blended model (4410–01).

[CLICK HERE](#) to view the course video.

## AP European History

**Department:** Social Studies

**Course Number:** 4810–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** None

**NCAA Approved:** Yes

Advanced Placement European History is designed to prepare the student to take the College Board's AP European History examination in May. This year-long course immerses students in three main areas of study concentrating on cultural, intellectual, political, diplomatic, economic, and social aspects of European history from the Renaissance to the present. Students will read primary source material as well as text readings and engage in lectures, discussions and essay writing in preparation for the AP test. Because of the difficulty and concentration of the material covered, students should have an interest in history, and the desire to refine skills of analysis and expression on a broad range of topics related to European history.

[CLICK HERE](#) to view the course video.

## Dual Credit Comparative Political Systems Honors

**Department:** Social Studies

**Course Number:** 4700–00

**Open to Grade Level(s):** 12

**Credit Amount:** 0.5

**Credit Type:** Honors, Dual Credit

**College/University Partnership:** College of Lake County (PSC221)

**Prerequisite:** [CLC Reading and Writing Readiness](#)

**NCAA Approved:** Yes

**Fee:** \$50

This course is a comparative study of national political systems across the globe. The primary focus of this dual credit course is to describe and explain the conditions necessary and sufficient for a democracy to exist. A three part classification (Developed Democracies, Developing Democracies and Non-Democracies) is used to analyze the similarities and differences found within and across the different political systems. A select group of countries from different regions in the world are studied to illustrate political, economic and social development as it relates to regime type. This one semester course will earn students a semester of college credit from the College of Lake County. This course must be taken in addition to CP, Honors, or AP Government to fulfill the LZHS civics graduation requirement.

Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## AP Human Geography

**Department:** Social Studies

**Course Number:** 4820–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** None

**NCAA Approved:** Yes

Advanced Placement Human Geography is a year-long course designed to prepare students to take the College Board's AP Human Geography examination in May. The course focuses on the distribution, processes, and effects of human populations on the planet. Students in Human Geography address the questions of "where" and "why" and analyze the constant struggle between globalization and local diversity. Units of study include population, migration, culture, language, religion, ethnicity, political geography, development, industry, agriculture, and urban geography. Examples from around the globe are used and are compared and contrasted to the United States and our local region. Students choosing this course may have an interest in the following career pathways: medical science, international business, international relations, international law, nongovernmental organizations.

[CLICK HERE](#) to view the course video.

## AP United States History

**Department:** Social Studies

**Course Number:** 4830-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** None

**NCAA Approved:** Yes

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. Students explore eight themes throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. This class serves as a pathway towards a career in law, politics, education, business, and more.  
[CLICK HERE](#) to view the course video.

## AP Psychology

**Department:** Social Studies

**Course Number:** 4850-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** None

**NCAA Approved:** Yes

AP Psychology is an introductory college-level psychology course. Students cultivate their understanding of the systematic and scientific study of human behavior and mental processes through inquiry-based investigations as they explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. This course examines the history of psychology and psychological theories, contemporary perspectives on psychology, and how psychological research is conducted.  
[CLICK HERE](#) to view the course video.

## AP Economics

**Department:** Social Studies

**Course Number:** 4840-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** None

**NCAA Approved:** Yes

Advanced Placement Economics is designed to prepare the student to take the College Board's AP Microeconomics and AP Macroeconomics examinations in May. AP Economics will give students a thorough understanding of the principles of economics that apply to both personal finance, as well as to our economy. Topics covered include: basic economic concepts, supply and demand, business management, measurement of economic performance, national income and price determination, financial sector, inflation, unemployment and stabilization policies, economic growth and productivity, and international trade and finance. Successful completion of AP Economics satisfies the Consumer Education requirement for graduation.  
[CLICK HERE](#) to view the course video.

## AP U.S. Government & Politics

**Department:** Social Studies

**Course Number:** 4860-00

**Open to Grade Level(s):** 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** None

**NCAA Approved:** Yes

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. This class also serves as a pathway towards a career in law, politics, education, business and more. Successful completion of this course fulfills the government graduation requirement.  
[CLICK HERE](#) to view the course video.

# WORLD LANGUAGES & CULTURES COURSE OFFERINGS

## FRENCH COURSE OFFERINGS

### French I

**Department:** World Languages & Cultures

**Course Number:** 5000-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** Yes

This course is designed for the beginning French student. Whether or not you have taken French before, everyone will begin at the same point. This course covers basic French vocabulary, grammar, and elementary culture in preparation for continued language study. The language skills acquired in French I (listening, speaking, reading, and writing) will enable you to learn and discuss the literature, geography and culture of some French-speaking cultures. In addition, you will learn and use new vocabulary applicable to real-life situations. The units of study may include: Getting to Know You, Family and Community, Making Plans, Eating at a Café/Foods, and Travel. [CLICK HERE](#) to view the course video.

### French II

**Department:** World Languages & Cultures

**Course Number:** 5010-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** French I

**NCAA Approved:** Yes

French II is a fun and engaging course that is designed for the continuing French student. In this course, students will reactivate their prior knowledge from French I while also learning new vocabulary and more advanced grammar skills. Upon completion of this course, students will be able to engage in conversations regarding useful, everyday contexts. Students will also be able to use their listening, reading, and writing skills to study and develop an appreciation of the daily life and culture of some French-speaking cultures. Units of study may include: Identity, Daily Life, Let's Eat, and Travel. [CLICK HERE](#) to view the course video.

### French II Honors

**Department:** World Languages & Cultures

**Course Number:** 5020-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** French I

**NCAA Approved:** Yes

French II Honors is a fun and engaging course that is designed for the continuing French student. In this course, students will reactivate their prior knowledge from French I while also learning new vocabulary and more advanced grammar skills. Upon completion of this course, students will be able to engage in conversations regarding useful, everyday contexts. Students will also be able to use their listening, reading, and writing skills to study and develop an appreciation of the daily life and culture of some French-speaking cultures. Units of study may include: Identity, Daily Life, Let's Eat, and Travel.

French II and French II Honors are differentiated in regards to the rigor, pace, and expectations of the students which includes daily classroom activities, outside of class expectations, and formative and summative assessments.

[CLICK HERE](#) to view the course video.

### French III

**Department:** World Languages & Cultures

**Course Number:** 5030-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** French II

**NCAA Approved:** Yes

This course is designed for the continuing French student. French III provides a greater emphasis on the French language, grammar, and culture. The primary purpose of the course is to prepare students to become well-rounded global citizens who can communicate effectively in French and are aware of the cultural influences of the French and Francophone heritage at home and abroad. This course also prepares students for French IV and students in this course build upon their French knowledge by continuing to practice a variety of grammatical structures. Students will also become equipped to read and understand level-appropriate literary selections and gain necessary skills to interact verbally and in writing with French speakers in varied social and academic situations. As part of the course, students will be afforded opportunities to read, write, hear, and speak French while they work towards becoming linguistically and culturally competent. The following thematic units will be covered: The Way We Live (Housing in France), The Past and Me (traditions and holidays), and The Environment and You. [CLICK HERE](#) to view the course video.

### French III Honors

**Department:** World Languages & Cultures

**Course Number:** 5040-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** French II

**NCAA Approved:** Yes

This course is designed for the continuing French student. French III Honors provides a greater emphasis on the French language, grammar, and culture. The primary purpose of the course is to prepare students to become well-rounded global citizens who can communicate effectively in French and are aware of the cultural influences of the French and Francophone heritage at home and abroad. This course also prepares students for French IV and eventually AP French with more rigorous assessments reflecting speaking, writing, reading, and listening skills. Students in this course build upon their French knowledge by continuing to practice a variety of grammatical structures. Students will also become equipped to read and understand level-appropriate literary selections and gain necessary skills to interact verbally and in writing with French speakers in varied social and academic situations. As part of the course, students will be afforded opportunities to read, write, hear, and speak French while they work towards becoming linguistically and culturally competent. The following thematic units will be covered: The Way We Live (Housing in France), The Past and Me (traditions and holidays), and The Environment and You.

French III and French III Honors are differentiated in regards to the rigor, pace, and expectations of the students which includes daily classroom activities, outside of class expectations, and formative and summative assessments.

[CLICK HERE](#) to view the course video.

## French IV

**Department:** World Languages & Cultures

**Course Number:** 5050–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** French III

**NCAA Approved:** Yes

French IV is designed for the continuing French student. French IV students focus on mastering the foundational structures and vocabulary from French I through III with fun and engaging language experiences while also acquiring advanced French language skills. Students will navigate and interpret authentic text and audio-visual sources, with an emphasis on oral and written proficiency through presentational and interpretational assessment. French IV students will dive deeper into the cultures of French-speaking countries. Students will study and communicate about the following real life topics: Our Right to Education, Ready for the Future, Art Reflects our Society, and Paris. This course will lead you to continuing the bilingual learning path towards the Seal of Biliteracy and/or Advanced Placement (AP French).

[CLICK HERE](#) to view the course video.

## AP French

**Department:** World Languages & Cultures

**Course Number:** 5180–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** French IV

**NCAA Approved:** Yes

The AP French Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. In this course students will develop awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). Students explore six AP themes almost exclusively in French: Families and Communities, Science and Technology, Global Challenges, Contemporary Life, Personal and Public Identities, Beauty and Aesthetics. This course is designed to prepare students for the AP French Language and Culture exam.

[CLICK HERE](#) to view the course video.

## French IV Honors

**Department:** World Languages & Cultures

**Course Number:** 5060–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** French III

**NCAA Approved:** Yes

French IV is designed for the continuing French student. French IV students focus on mastering the foundational structures and vocabulary from French I through III with fun and engaging language experiences while also acquiring more advanced French language skills. Students will navigate and interpret authentic text and audio-visual sources, with an emphasis on oral and written proficiency through presentational and interpretational assessment. French IV students will dive deeper into the cultures of French-speaking countries. Students will study and communicate about the following real life topics: Our Right to Education, Ready for the Future, Art Reflects our Society, and Paris. This course will lead you to continuing the bilingual learning path towards the Seal of Biliteracy and/or Advanced Placement (AP French).

French IV and French IV Honors are differentiated in regards to the rigor, pace, and expectations of the students which includes daily classroom activities, outside of class expectations, and formative and summative assessments.

[CLICK HERE](#) to view the course video.

# GERMAN COURSE OFFERINGS

## German I

**Department:** World Languages & Cultures

**Course Number:** 5300–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** Yes

If you have never taken German before, this is the class for you! In this class we enjoy learning about German culture while we learn to speak, read, listen, and write about different topics. You will be able to talk about yourself and your family, make plans with friends, talk about a healthy lifestyle, and more. You will learn the language through games, music, and interactive activities.

[CLICK HERE](#) to view the course video.

## German II

**Department:** World Languages & Cultures

**Course Number:** 5310–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** German I

**NCAA Approved:** Yes

In this class you will continue to grow in your German-learning journey. You will expand your knowledge of German culture and begin the fascinating study of the grammar concepts that will allow you to improve your communication skills. You will learn about delicious German food and its connection with the culture. You will also be able to plan traveling adventures, talk about your heroes, describe your style, and explain what appeals to you.

[CLICK HERE](#) to view the course video.

## German II Honors

**Department:** World Languages & Cultures

**Course Number:** 5320–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** German I

**NCAA Approved:** Yes

This class is just as fun as German II, but it is more rigorous, it follows a faster pace, and students are expected to elaborate more in their production of the language. This class follows the same themes, but we dig deeper into the interesting content and skills. You will expand your knowledge of German culture and continue the fascinating study of the grammar concepts that will allow you to improve your communication skills. You will learn about delicious German food and its connection with the culture. You will also be able to plan traveling adventures, talk about your heroes, describe your style, and explain what appeals to you.

[CLICK HERE](#) to view the course video.

## German III

**Department:** World Languages & Cultures

**Course Number:** 5330–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** German II

**NCAA Approved:** Yes

In German III, you begin to master the German case system and expand your ability to describe concepts in a more sophisticated way. Additionally, you will be able to comprehend more complex authentic texts and audios. You will also gain a deeper knowledge of relevant cultural aspects of the German culture. You will learn about how and where Germans choose to live and you will make connections with your own culture. You will acquire knowledge about German clothing etiquette and about how Germans dress for different occasions. You will also become acquainted with German geography and the culture, history, and myths of the Rhein and other interesting regions.

[CLICK HERE](#) to view the course video.

## German III Honors

**Department:** World Languages & Cultures

**Course Number:** 5340–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** German II

**NCAA Approved:** Yes

In German III Honors, you begin to master the German case system and expand your ability to describe concepts in a more sophisticated way. Additionally, you will be able to comprehend more complex authentic texts and audios. You will also gain a deeper knowledge of relevant cultural aspects of the German culture. You will learn about how and where Germans choose to live and you will make connections with your own culture. You will acquire knowledge about German clothing etiquette and about how Germans dress for different occasions. You will also become acquainted with German geography and the culture, history, and myths of the Rhein and other interesting regions. The final unit of study is Responsible Citizenship, and you will make cultural connections between a German community and your own. Compared to German III, this class has more rigorous assessments, moves at a faster pace, and the expectations for language production from the students are higher. You will want to take this class if you are planning on continuing to German IV Honors and AP German.

[CLICK HERE](#) to view the course video.

## German IV

**Department:** World Languages & Cultures

**Course Number:** 5350–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** German III

**NCAA Approved:** Yes

In this class you will continue to expand and refine your knowledge to talk about past events and communicate more complex ideas. You will be able to talk about how you are feeling, and communicate things that are happening to you. In this level of German, you will also be able to talk about hypothetical situations, make polite requests, and create more sophisticated and complex sentences. You will continue to explore the fascinating German culture by studying where people vacation in Germany, learning about the idea of health and healthcare systems, researching what people in Germany do on a daily basis to support and lead an environmentally friendly life, learning about shopping in Germany, and creating cultural connections of the effect of media and technology in Germany and your own community. Finally, you will learn all about Christkindlmarkt, an exciting and beautiful German holiday tradition, and you will go on a field trip to our own local Christkindlmarkt in Chicago.

[CLICK HERE](#) to view the course video.

## German IV Honors

**Department:** World Languages & Cultures

**Course Number:** 5360–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** German III

**NCAA Approved:** Yes

In this class you will continue to expand and refine your knowledge to talk about past events and communicate more complex ideas. You will be able to talk about how you are feeling and communicate things that are happening to you. In this level of German, you will also be able to talk about hypothetical situations, make polite requests, and create more sophisticated and complex sentences. You will continue to explore the fascinating German culture by studying where people vacation in Germany, learning about the idea of health and healthcare systems, researching what people in Germany do on a daily basis to support and lead an environmentally friendly life, learning about shopping in Germany, and creating cultural connections of the effect of media and technology in Germany and your own community. Finally, you will learn all about Christkindlmarkt, an exciting and beautiful German holiday tradition, and you will go on a field trip to our own local Christkindlmarkt in Chicago. Compared to German IV, this class has more rigorous assessments, moves at a faster pace, and the expectations for language production from the students are higher. You will want to take this class if you are planning on taking AP German.

[CLICK HERE](#) to view the course video.

## Dual Credit German V Honors

**Department:** World Languages & Cultures

**Course Number:** 5370–00

**Open to Grade Level(s):** 12

**Credit Amount:** 1

**Credit Type:** Honors, Dual Credit

**College/University Partnership:** Eastern Illinois University (WLG 2201)

**Prerequisite:** German IV

**NCAA Approved:** Yes

**Fee:** \$250

Dual Credit German V Honors is the first semester of intermediate German at the college level. You will earn both high school and university credit. This class follows the Eastern Illinois University curriculum. You will review grammar, engage in conversations, compositions, and readings of selected materials. In this class, there will be a combination of the content language learning and the interactive tasks in which information is exchanged. You will develop communicative proficiency in all four skills (speaking, listening, reading, and writing), and you will acquire real–world information of German–speaking communities. You will explore many German cultural topics like traditions and values, food and diet, different families and relationships, and historical events.

Please note: The fee for this course, which include 3 Eastern Illinois University credits, is \$250. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## AP German

**Department:** World Languages & Cultures

**Course Number:** 5480-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** German IV

**NCAA Approved:** Yes

The AP German Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP German Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. In this course students will develop awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). Students explore six AP themes almost exclusively in German: Families and Communities, Science and Technology, Global Challenges, Contemporary Life, Personal and Public Identities, Beauty and Aesthetics. This course is designed to prepare students for the AP German Language and Culture exam. [CLICK HERE](#) to view the course video.

## SPANISH COURSE OFFERINGS

### Spanish I

**Department:** World Languages & Cultures

**Course Number:** 5500-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** Yes

This course is designed for the beginning Spanish student. This course covers basic Spanish vocabulary, grammar, and elementary culture in preparation for continued language study. The language skills acquired in Spanish I (listening, speaking, reading, and writing) will enable you to learn and discuss the literature, geography, and culture of some Spanish-speaking cultures. In addition, you will learn and use new vocabulary applicable to real-life situations. Units of study may include: Getting to Know You, Family and Community, Making Plans, Eating at a Café/Foods, and Travel. [CLICK HERE](#) to view the course video.

### Spanish II Honors

**Department:** World Languages & Cultures

**Course Number:** 5520-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Spanish I

**NCAA Approved:** Yes

In this course you will continue to develop your Spanish abilities in the areas of speaking, reading, listening, and writing. In addition, you will learn and use new vocabulary applicable to real-life situations. You will acquire the tools to describe different traits and characteristics of people, and to explain how to live a healthy lifestyle. Furthermore, you will become familiar with many aspects of the Spanish-speaking cultures, like delicious food, clothing as part of self-expression, and how people use different means to travel. You will have a joyful learning experience in your language journey through games, music, and interactive communicative activities. Spanish II Honors is just as fun and interesting as Spanish II. It is more rigorous, it follows a faster pace, and students are expected to elaborate more in their production of the language. [CLICK HERE](#) to view the course video.

### Spanish II

**Department:** World Languages & Cultures

**Course Number:** 5510-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Spanish I

**NCAA Approved:** Yes

In this course you will continue to develop your Spanish abilities in the areas of speaking, reading, listening, and writing. In addition, you will learn and use new vocabulary applicable to real-life situations. You will acquire the tools to describe different traits and characteristics of people, and to explain how to live a healthy lifestyle. Furthermore, you will become familiar with many aspects of the Spanish-speaking cultures, like delicious food, clothing as part of self-expression, and how people use different means to travel. You will have a joyful learning experience in your language journey through games, music, and interactive communicative activities. [CLICK HERE](#) to view the course video.

### Spanish III

**Department:** World Languages & Cultures

**Course Number:** 5530-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Spanish II

**NCAA Approved:** Yes

Spanish III provides greater emphasis on Spanish language, grammar, and culture. The primary purpose of the course is to prepare students to become well-rounded global citizens who can communicate effectively in Spanish and are aware of the cultural influences of the Spanish and Latino heritage at home and abroad. Thematic units of study include: city vs. countryside living, housing and architecture, childhood memories, cultural celebrations, and our shared need to protect the environment. Students in this course build upon their Spanish knowledge by continuing to practice a variety of grammatical structures. Students will also become equipped to read and understand level-appropriate authentic texts. Students gain necessary skills to have authentic interactions with Spanish speakers through daily class participation. As part of the course, students will be afforded opportunities to read, write, hear, and speak Spanish while they work towards becoming linguistically and culturally competent. [CLICK HERE](#) to view the course video.

## Spanish III Honors

**Department:** World Languages & Cultures

**Course Number:** 5540-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Spanish II

**NCAA Approved:** Yes

Spanish III Honors provides greater emphasis on the Spanish language, grammar, and culture. The primary purpose of the course is to prepare students to become well-rounded global citizens who can communicate effectively in Spanish and are aware of the cultural influences of the Spanish and Latino heritage at home and abroad. Thematic units of study include: city vs. countryside living, housing and architecture, childhood memories, cultural celebrations, and our shared need to protect the environment. Students in this course build upon their Spanish knowledge by learning more complex grammatical structures and become equipped to read and understand authentic texts. Students also gain necessary skills to have authentic interactions with Spanish speakers through daily class participation. As part of the course, students will be afforded opportunities to read, write, hear, and speak Spanish while they work towards becoming linguistically and culturally competent. At the honors level, students can expect more in-depth exploration into topics and grammatical structures, a faster pace, and more rigorous assessments.

[CLICK HERE](#) to view the course video.

## Dual Credit Spanish V Honors

**Department:** World Languages & Cultures

**Course Number:** 5570-00

**Open to Grade Level(s):** 12

**Credit Amount:** 1

**Credit Type:** Honors, Dual Credit

**College/University Partnership:** Eastern Illinois University (WLS 2201)

**Prerequisite:** Spanish IV

**NCAA Approved:** Yes

**Fee:** \$250

Dual Credit Spanish V Honors is the first semester of intermediate Spanish at the college level. You will earn both high school and university credit. This class follows the Eastern Illinois University curriculum. You will review grammar, engage in conversations, compositions, and readings of selected materials. In this class, there will be a combination of content language learning and interactive tasks in which information is exchanged. You will develop communicative proficiency in all four skills (speaking, listening, reading, and writing), and you will acquire real-world information of Spanish-speaking communities. You will explore cultural topics like traditions and values, food and diet in Spain, different families and relationships, and the historical heroes and villains.

Please note: The fee for this course, which include 3 Eastern Illinois University credits, is \$250. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Spanish IV

**Department:** World Languages & Cultures

**Course Number:** 5550-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Spanish III

**NCAA Approved:** Yes

Spanish IV builds upon the mastery of foundational structures and vocabulary from Spanish I through III with fun and engaging language acquisition experiences. Students will acquire advanced Spanish language skills as they navigate and interpret authentic text and audio-visual sources, with an emphasis on oral and written proficiency. The following thematic units will be covered: The Right to Education, Career Trends in the Future, Healthcare, Art Reflects Society, and The Digital World. Students are able to communicate about topics that are universal to the human experience as a global citizen. This course design prepares students to continue the bilingual learning path towards the Seal of Biliteracy, Dual Credit Spanish and/or Advanced Placement (AP Spanish).

[CLICK HERE](#) to view the course video.

## AP Spanish

**Department:** World Languages & Cultures

**Course Number:** 5680-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** Spanish IV

**NCAA Approved:** Yes

The AP Spanish Language and Culture course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. In this course students will develop awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). Students explore six AP themes almost exclusively in Spanish: Families and Communities, Science and Technology, Global Challenges, Contemporary Life, Personal and Public Identities, Beauty and Aesthetics.

This course is designed to prepare students for the AP Spanish Language and Culture exam.

[CLICK HERE](#) to view the course video.

## Spanish IV Honors

**Department:** World Languages & Cultures

**Course Number:** 5560-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Spanish III

**NCAA Approved:** Yes

Spanish IV Honors builds upon the mastery of foundational structures and vocabulary from Spanish I through III with fun and engaging language acquisition experiences. Students will acquire advanced Spanish language skills as they navigate and interpret authentic text and audio-visual sources, with an emphasis on oral and written proficiency through presentational and interpretational assessments. The following thematic units will be covered: The Right to Education, Career Trends in the Future, Healthcare, Art Reflects Society, and The Digital World. Students are able to communicate about topics that are universal to the human experience as a global citizen. This course design prepares students for continuing the bilingual learning path towards the Seal of Biliteracy, Dual Credit Spanish and/or Advanced Placement (AP Spanish). At the honors level, students can expect more in-depth exploration into topics and grammatical structures, a faster pace, and more rigorous assessments.

[CLICK HERE](#) to view the course video.





# INNOVATION & CAREER PATHWAYS

ART + DESIGN  
BUSINESS  
ENGINEERING  
FAMILY & CONSUMER SCIENCES

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## DIVISION LEADER

**Ms. Niki Jensen**

Nicole.Jensen@lz95.org  
(847) 540-4145

## DIVISION LEADER BIO

*Niki Jensen serves as the Innovation and Career Pathways Division Head at Lake Zurich High School. She also oversees Tech Campus and student internships. Through these roles, Jensen says, "I want to empower all learners to strive for greatness." With 14 years of experience in Career and Technical Education (CTE) and leadership combined, she joined the school from Rockford Public Schools where she served as an Assistant Principal; prior to that, she was the CTE Content Leader and a Family and Consumer Science teacher at Belvidere High School. She holds a bachelor's degree in Family and Individual Development with a concentration in Child Development from Northern Illinois University, and a master's degree in School Improvement Leadership from Olivet Nazarene University; she is also ELL and LBS1 endorsed. In her personal time, she enjoys reading (mostly historical fiction novels), learning about healing crystals and metaphysical properties, and researching family lineage and genealogy.*

## ART + DESIGN PROGRAM DESCRIPTION

The Art + Design program at Lake Zurich High School is designed to prepare students for careers in Art + Design and for lives that are enriched and enhanced through a relationship with Art + Design. Art + Design is an essential and vital part of modern life, touching on every industry and every part of our culture. Students in Art + Design not only learn to make original artwork, but also develop the skills needed to understand, respond to, and connect to Art + Design that we see in the world every day. Careers in architecture, marketing, industrial design, education, fashion, entertainment, and many other areas are enhanced through an understanding of Art + Design.

The Art + Design courses at Lake Zurich High School are organized into three areas of study emphasizing the skills needed to succeed in specific areas of interest. Students have choice to select a single track and follow it from beginning to end, or select different tracks to experience all the areas offered. The most successful and serious Art + Design students will strive to take a full 4-year program with an Art + Design class each semester. The three tracks are: 2-D Drawing & Painting, 3-D Ceramics & Sculpture and Digital Art & Photography. AP Art History is available for continual study.

- One credit is required in a humanities-related field in order to graduate from LZHS. Art + Design is a humanities field.
- Course fees may apply in select Art + Design courses, as indicated in the course descriptions below.

## BUSINESS PROGRAM DESCRIPTION

The LZHS Business Education Department offers students a broad education in computers, management, marketing, career exploration, communication, accounting, consumer economics, entrepreneurship, and law. Emphasis of the program includes a variety of computer applications, an understanding of business problems, and the development of managerial skills.

- One credit is required in a humanities-related field in order to graduate. Business Education is a humanities field.
- Students may take one of the following courses to fulfil the consumer education graduation requirement: Consumer Education, Consumer Education Honors, INCubatoredu Honors, or ACCEleratoredu Honors
- LZHS Business blended learning courses (as defined in the course descriptions below) follow a 3-2 model:
  - Three days of face-to-face instruction
  - Two days of flexible/virtual instruction
  - The teacher may require a student to attend all five days if a greater need for face-to-face instruction arises
  - Students may self-select participation in 4-5 days of face-to-face instruction

## ENGINEERING PROGRAM DESCRIPTION

The Engineering Department offers students a broad experience by working on design projects that include experience in various professions; including engineering, architecture, robotics, and industrial design. Courses in the Engineering Department are aligned with the International Technology Education Association (ITEA) Standards for Technological Literacy, National Science Education & Teaching Standards (NSES), and the National Council of Teacher of Mathematics (NCTM).

- One credit is required in a humanities–related field for graduation. The courses in the Engineering Department award humanities credit.
- It is recommended that any student interested in pursuing engineering as a career register for Engineering courses.
- Students interested in taking either Principles of Robotics Engineering or Introduction to Engineering are recommended to register for both classes during their freshman year; each course is one semester long. By taking both classes in one school year, students will have completed the prerequisites to move forward in our course sequence and get the most out of what is offered within the Engineering Department here at LZHS.
- LZHS Engineering courses follow a self–paced blended model giving students flexibility in daily attendance based on individual student need. Through this, students demonstrate autonomy while cultivating self–management and responsible decision–making competencies in order to further refine their essential employability skills.

## FAMILY & CONSUMER SCIENCES PROGRAM DESCRIPTION

At Lake Zurich High School, Family and Consumer Sciences (FACS) encompasses the study of relationships among people and their personal environments, focusing on the impact of physical, biological, and social environments on human behavior and development, as well as nutrition throughout your life and making healthy decisions.

We strive to prepare students for family life, work life and careers in FACS by providing opportunities to develop the knowledge, skills, and behaviors needed for:

- Strengthening the well–being of individuals and families across the lifespan
- Becoming responsible citizens and leaders in family, community and work settings
- Promoting optimal nutrition and wellness across the lifespan
- Managing resources to meet the material needs of individuals and families
- Balancing personal, home, family and work lives
- Using critical and creative thinking skills to address problems in diverse family, community & work environments
- Successful life management, employment and career development
- Functioning effectively as providers and consumers of goods and services
- Appreciating human worth and accepting responsibility

Students may take Adult Living to fulfil the consumer education graduation requirement.

## RECOMMENDATION FOR PLACEMENT

- LZHS course sequences do not mandate that a student must stay on a given program or pathway throughout one's high school career. With demonstrated effective effort, motivation, and improved performance, a student may engage in a more rigorous course load or change course according to post–secondary goals during the course selection process.
- Recommendation for placement in any course is based on performance and demonstration of effective effort. Each teacher monitors these two aspects and considers them in making a recommendation of placement for the student for the following year. Please refer to the course descriptions below on specific information related to prerequisites.
- Students, parents and guardians are welcome to contact the teacher or Innovation & Career Pathways Division Head if concern about the recommendation arises.

# ART + DESIGN COURSE OFFERINGS

## Drawing

**Department:** Art + Design

**Course Number:** 8110-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

**Fee:** Art materials

If you have always loved to draw or doodle, then this is the class for you. Students will have the opportunity to explore the use of mark-making as a powerful form of communication and creative personal expression; through the investigation of a wide range of media, techniques and surfaces utilized by artists, designers and architects the world over. You will build a richer foundation of drawing knowledge and skills through both collaborative and independent research as you continue to develop your ideas in response to open-ended prompts.

Please note: Students will be required to purchase art materials for this course. Information will come directly from the classroom teacher.

[CLICK HERE](#) to view the course video.

## Painting

**Department:** Art + Design

**Course Number:** 8130-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

**Fee:** Art materials

If you are interested in exploring one of the most fluid, exciting and diverse art mediums, this class is for you. Students will have the opportunity to explore painting as a powerful form of communication and creative self-expression through the investigation of a wide range of mediums, techniques and surfaces, made famous by artists around the world. You will build a stronger foundation of painting knowledge and skills through both collaborative and independent research as you continue to develop your ideas in response to open-ended prompts.

Please note: Students will be required to purchase art materials for this course. Information will come directly from the classroom teacher.

[CLICK HERE](#) to view the course video.

## 2D Studio I

**Department:** Art + Design

**Course Number:** 8150-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Drawing or Painting

**NCAA Approved:** No

**Fee:** Art materials

Now that you have developed a passion for Drawing and Painting, you are ready to increase your knowledge and explore new possibilities through the creation of unique art pieces within your chosen media that address an idea, concept or design-based problem. This class will begin to explore your artistic voice and the investigation of a personal style. This course may be repeated.

Please note: Students will be required to purchase art materials for this course. Information will come directly from the classroom teacher.

[CLICK HERE](#) to view the course video.

## 2D Studio II

**Department:** Art + Design

**Course Number:** 8160-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** 2D Studio I

**NCAA Approved:** No

**Fee:** Art materials

You have followed your passion and learned much about drawing and painting and now it is time to put all that knowledge together, create a body of work and develop your artistic voice. Students will have the opportunity to gain additional media and technical knowledge through the development of a body of work that addresses a personal, conceptual theme and the investigation of an artistic style or voice within their chosen media. This course may be repeated.

Please note: Students will be required to purchase art materials for this course. Information will come directly from the classroom teacher.

[CLICK HERE](#) to view the course video.

## Ceramics

**Department:** Art + Design

**Course Number:** 8000-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

If you love getting your hands dirty and working with clay, this is the course for you. This class offers a diverse approach to art of ceramics and the processes involved in the production of functional and non-functional wares. Ceramics will provide you with studio experience using varieties of clay, and various surface treatments on hand-built and wheel-thrown ceramics. You will be highly involved in ceramic production, clay and glaze maintenance and electric and alternative kiln firing practices.

[CLICK HERE](#) to view the course video.

## Sculpture

**Department:** Art + Design

**Course Number:** 8020-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

If you are interested in building, fabricating, making and assembling three-dimensional forms, this is the course for you. The class offers a study of traditional and contemporary sculpture materials and practices. Sculpture will provide you studio experience in the creation of three-dimensional forms, with opportunities to work in wood, plaster, glass, wire, metal and found-objects. You will gain experience in assemblage, relief, additive, subtractive and installation sculptural processes.

[CLICK HERE](#) to view the course video.

## 3D Studio I

**Department:** Art + Design

**Course Number:** 8030-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Ceramics or Sculpture

**NCAA Approved:** No

Now that you are hooked on Ceramics and Sculpture, it's time to increase your knowledge and investigate your passion. Artists in this course will create 3-dimensional forms within their chosen media of study that address an idea, concept or design-based problem. This course may be repeated.

[CLICK HERE](#) to view the course video.

## 3D Studio II

**Department:** Art + Design

**Course Number:** 8040-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** 3D Studio I

**NCAA Approved:** No

In this studio-based class you will develop visual and conceptual ceramics and sculptural ideas. You will gain additional media and technical knowledge through the development of a body of work that addresses a personal, conceptual theme and the investigation of an artistic style or voice. This course may be repeated.

[CLICK HERE](#) to view the course video.

## Photography

**Department:** Art + Design

**Course Number:** 8050–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Photography is the art of using light to create images, typically with a camera. Students in this course will be introduced to photography and modern digital technology. A skilled photographer is able to make images that tell stories, convey emotions, and express deep personal meaning. The major emphasis in this class is on developing an understanding for how photographs are made, and how artists create meaning through the use of images. Students in this class will learn how to understand and interpret the meaning of images we all see every day, and how artists use images to shape people's feelings and perceptions.

[CLICK HERE](#) to view the course video.

## Digital Media Studio II

**Department:** Art + Design

**Course Number:** 8100–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Graphics Studio I / Digital Media Studio I

**NCAA Approved:** No

Now that you have developed a passion for computer based art and design, you are ready to take your skills to the next level and focus on applying those skills to advanced ideas and projects while continuing the development of your own unique personal style. In this course students will address an idea, concept or design-based problem by choosing a single extended project to focus on throughout the entire semester. Examples include creating a comic book, video game concept, product design, advertising design or animation.

[CLICK HERE](#) to view the course video.

## Photography Studio 1

**Department:** Art + Design

**Course Number:** 8060–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Photography

**NCAA Approved:** No

For students with an interest in continued study in Photography, this course expands on the basic skills learned in the Photography course. Students will choose specific tools and methods to pursue in this course, and will learn advanced techniques that apply to traditional and digital photo processing, manipulation and the fine art of photography. Most importantly, you will begin working toward exploring your artistic voice and the development of a personal style.

[CLICK HERE](#) to view the course video.

## Design Thinking

**Department:** Art + Design

**Course Number:** 8170–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Design Thinking is a systematic approach to innovation and creative problem-solving that can be used to solve a wide range of real-world problems. As a part of District 95's STEAM initiative, this course provides students with a range of opportunities to practice Twenty-First Century Skills, make interdisciplinary connections, and redefine the classroom through collaboration with peers, professional connection, and community partnerships. These relationships provide students the opportunity to display, present, and share their solutions to an authentic audience. This course empowers students with the essential skills and knowledge to become creative and innovative change makers.

[CLICK HERE](#) to view the course video.

## Photography Studio II

**Department:** Art + Design

**Course Number:** 8070–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Photography Studio I

**NCAA Approved:** No

Now that you have developed a passion for Photography, you are ready to take your skills the next level and focus on applying those skills to advanced ideas and projects while continuing the development of your own unique personal style. In this course students will address an idea, concept or design-based problem by choosing a single extended series to work on throughout the entire semester. Examples include a series of environmental portraiture, photo-narrative or photographic documentary, abstraction and more.

[CLICK HERE](#) to view the course video.

## Studio Art + Design Honors

**Department:** Art + Design

**Course Number:** 8190–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** 2D Studio, 3D Studio, Photography Studio, or Graphics Studio

**NCAA Approved:** No

As an artist and designer in this course you will experience studio based art-making within an artist community. Students create a portfolio of work to demonstrate inquiry through art and design and experimentation of materials, processes, and ideas over the course of a year. Goal setting, creation, revision, reflection and critical discussion practices are a part of this course. Portfolios include works of art and design, process documentation, and information about the work presented. This course may be repeated as Studio Art + Design II Honors.

[CLICK HERE](#) to view the course video.

## Digital Art

**Department:** Art + Design

**Course Number:** 8080–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Many of today's most exciting creative careers require a solid foundation in computer based art applications and design. This course serves as an introduction to a variety of digital art media and techniques. Students in this course will learn introductory concepts and skills that will apply to video game design, character design, photo manipulation, product design, graphic design, illustration, and 3-D animation.

[CLICK HERE](#) to view the course video.

## Digital Media Studio I

**Department:** Art + Design

**Course Number:** 8090–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Graphics/Digital Art

**NCAA Approved:** No

For students with an interest in continued study in computer based art applications and design, this course expands on the basic skills learned in the Digital Art course. Students will choose a specific area of interest to pursue, and will learn advanced skills and techniques that apply to video game design, character design, photo manipulation, product design, graphic design, illustration, and 3-D animation. Most importantly, you will increase your overall knowledge and skills in this rapidly growing field and begin the exploration of your artistic voice and the development of a personal style.

[CLICK HERE](#) to view the course video.

## AP Studio Art + Design

Department: Art + Design

Course Number: 8280-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 1

Credit Type: AP

Prerequisite: Honors Studio Art + Design Recommended

NCAA Approved: No

The AP Art and Design program consists of three different courses and AP Portfolio Exams: AP 2D Art and Design, AP 3D Art and Design, and AP Drawing, corresponding to college and university foundations courses. Students may choose to submit any or all of the AP Portfolio Exams. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

The AP 2D Art and Design, AP 3D Art and Design, and AP Drawing courses are designed to be the equivalent of a one-semester, introductory college course in 2D art and design, 3D art and design, and drawing, respectively. AP Art and Design courses are for all students who are interested in inquiry-based thinking and making. Although there is no prerequisite for AP Art and Design courses, prior experiences learning about and making art and design support student success in AP Art and Design. Students who have not had opportunities to take art or design classes prior to AP will likely need assistance in developing a foundational understanding of art and design materials, processes, and ideas to prepare them for success.

[CLICK HERE](#) to view the course video.

## AP Art History

Department: Art + Design

Course Number: 8290-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 1

Credit Type: AP

Prerequisite: None

NCAA Approved: No

This course is unique in the Art + Design offerings, in that it is not an art production course. Many students who take this course will have never taken an art class before, but are interested in studying history and culture and earning college credit. Students in this class study the history and development of art and artists from all over the world. You will learn valuable skills like how to interpret and understand a piece of art or architecture, how to understand diverse cultural viewpoints, and how to write effective criticism and analysis of art objects. Students in this course are provided the opportunity to experience art through a variety of traditional, video, podcast, and online resources, field trips to the rich cultural sites around Chicago such as museums and architectural tours, and travel. This course is an excellent preparation for any student planning on attending college. Many college programs require art history courses, and students who do well on the AP Art History exam can often receive credit for two full college courses. Any student who may be considering studying art, architecture, or design in college is strongly encouraged to take this course. An understanding of art history is extremely valuable for a wide variety of careers including museum studies, education, anthropology, sociology, political science, world cultures and languages, business, advertising, and many others.

[CLICK HERE](#) to view the course video.

# BUSINESS COURSE OFFERINGS

## Introduction to Business

**Department:** Business

**Course Number:** 7000-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**ISBE College & Career Pathway:**  
Finance and Business Services –  
Accounting & METT

**NCAA Approved:** No

Introduction to Business is a one-semester, entry level course, designed to introduce students to the business world. The purpose of this course is to aid the understanding of economic systems, types of business organizations, marketing functions, and the role of government. This course will expose students to the various business entities, along with their common business characteristics, practices, and procedures. Students will study the interaction of departmental responsibilities and the scope of marketing, distribution, promotion, and product pricing. Through the use of basic financial analysis, the students will be better prepared for their future economic roles as consumers, workers, and citizens. This course is the orientation course for the Finance & Business Services Pathway as well as the METT Pathway. [CLICK HERE](#) to view the course video.

## Entrepreneurship

**Department:** Business

**Course Number:** 7010-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Introduction to  
Business Recommended

**NCAA Approved:** No

Entrepreneurship is a one-semester course designed to encourage students to recognize their own entrepreneurial spirit and learn about owning their own business. Students develop business and social skills and display their innovative and creative abilities through a variety of group projects. Students will explore their own business ideas by studying the parts of a business plan. Students are not expected to start their own business as part of the course. [CLICK HERE](#) to view the course video.

## Entrepreneurship Honors

**Department:** Business

**Course Number:** 7020-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** Honors

**Prerequisite:** Introduction to  
Business Recommended

**NCAA Approved:** No

Entrepreneurship Honors is a one-semester course designed to encourage students to recognize their own entrepreneurial spirit and learn about owning their own business. While students will develop a business plan, they are not expected to start their own business as part of the course. The course will inspire students to continue learning about local, national, and international business opportunities. During the course, students will develop business and social skills and display their innovative and creative abilities. [CLICK HERE](#) to view the course video.

## INCubatoredu Honors

**Department:** Business

**Course Number:** 7030-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** For 9th grade only,  
completion of mxINCedu

**NCAA Approved:** No

Throughout the program, students ideate, develop, and iterate their own product or service startup in an attempt to gain investment funds in a final Shark Tank-style pitch event. Real entrepreneurs and business experts serve as volunteer coaches and mentors guiding student teams through the processes of developing hypotheses about a business concept, testing those hypotheses, adapting, and continually learning and improving. The primary focus of this course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. Successful completion of INCubator Honors satisfies the graduation requirement for Consumer Education. This course fulfills the 60 hour internship and team based challenges for the career pathway endorsement. [CLICK HERE](#) to view the course video.

## ACCEleratoredu Honors

**Department:** Business

**Course Number:** 7040-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** INCubatoredu Honors

**NCAA Approved:** No

**Fee:** \$50

As a second-year course that follows INCubator Honors, ACCElerator Honors provides students the opportunity to launch and gain traction for their business. Elements include: • Company Formation: Establishing a legal entity and developing three areas: customer acquisition, production and business processes as it suits their business. • Market Traction: The experience models a real-life start-up accelerator focused on developing teams through mentorship, education, connections, and accountability to launch a company. • Iterate and Scale: The course transitions businesses founded in INCubatoredu into sustainable, functioning ventures. Successful completion of ACCEleratoredu Honors satisfies the graduation requirement for Consumer Education. [CLICK HERE](#) to view the course video.

## Dual Credit College Accounting I Honors

**Department:** Business

**Course Number:** 7170-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors, Dual Credit

**College/University Partnership:**  
College of Lake County (ACC121)

**Prerequisite:** None

**ISBE College & Career Pathway:**  
Finance and Business Services – Accounting

**NCAA Approved:** No

**Fee:** \$50

Dual Credit College Accounting I Honors offers students the opportunity to obtain four College credits while in high school, in addition to Honor high school credit. This class will follow the College of Lake County syllabus for ACC 121 Financial Accounting. The first part of the course provides a clear, concise coverage of the accounting cycle, using the corporate structure to produce the general-purpose financial statements: Income Statement, Statement of Retained Earnings and Balance Sheet. The remainder of the class covers financial topics that will enhance the student's understanding of the accounting for financial transactions and of corporate financing through the use of debt and equity. Current and innovative technology is integrated into the curriculum. This course is the skill development course for the Finance & Business Services Pathway.

Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Advanced Computer Applications

**Department:** Business

**Course Number:** 7100-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Computer Applications

**NCAA Approved:** No

This course is an in-depth study and use of the skills learned in Computer Applications and Web Design. Students who desire a higher level of expertise should highly consider taking this advanced course. Students will integrate database creation (Microsoft Access), more in-depth spreadsheet creation (Microsoft Excel), and coding (HTML/CSS) in a project-based environment.

This course is also offered in a blended learning format (7100-01).

[CLICK HERE](#) to view the course video.

## Multimedia Presentations

**Department:** Business

**Course Number:** 7110-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Through the integrated use of Microsoft PowerPoint, MovieMaker, Adobe PhotoShop, digital cameras, and scanners students will create a variety of visual presentations. The purpose of this course is for students to use the presentation software more in-depth and in an integrated format.

[CLICK HERE](#) to view the course video.

## Dual Credit College Accounting II Honors

**Department:** Business

**Course Number:** 7180-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** Honors, Dual Credit

**College/University Partnership:**  
College of Lake County (ACC122)

**Prerequisite:** Dual Credit College Accounting I Honors

**ISBE College & Career Pathway:**  
Finance and Business Services – Accounting

**NCAA Approved:** No

**Fee:** \$50

Dual Credit College Accounting II Honors offers students the opportunity to obtain four College credits while in high school, in addition to Honor high school credit. This class will follow the College of Lake County syllabus for ACC 122 Managerial Accounting. This course emphasizes managerial accounting, focusing on the internal rather than the external aspects of business transactions. As such, management accountants are part of an organization's strategic team. They must understand not only the financial side of the organization, but must be equally cognizant of the operational side of the organization's processes. Managerial accountants use their knowledge and skills to influence decisions that create value for the organization's stakeholders through planning, budgeting, forecasting, and decision support. These skills include financial analysis, critical thinking, problem solving, and decision-making. Current and innovative technology is integrated into the curriculum. This course is the capstone course for the Finance & Business Services Pathway.

Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Internet/Webpage Design

**Department:** Business

**Course Number:** 7120-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Internet/Webpage Design focuses on the development of web sites. It focuses on the shift from traditional print design to visual design. Students will take a look at design issues specific to web-based presentations, learn web page layout, effective navigation and delve into the design process. The course will help students integrate text, graphics, animation, sound and other multimedia applications into Web sites with an introduction to coding. Dreamweaver will be utilized for this course.

[CLICK HERE](#) to view the course video.

## Computer Applications

**Department:** Business

**Course Number:** 7090-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This course is for the student who desires to become proficient in the use of word processing (Microsoft Word), spreadsheet creation (Microsoft Excel), and presentation software (Microsoft PowerPoint). Taking this course will enable a student to integrate the knowledge learned and apply it in meaningful applications for future high school, college and career needs.

This course is also offered in a blended learning format (7090-01).

[CLICK HERE](#) to view the course video.

## Investment Management

**Department:** Business

**Course Number:** 7060-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Investment Management is a one-semester course designed for students seeking knowledge and experience in diverse investment options. Students will define personal financial goals and general investing guidelines. This course not only focuses on why you should invest in the stock market, but also how and why the market functions as it does. Students will also explore other investment options such as bonds, mutual funds, real estate, commodities, and currencies. The course concludes with ideas such as investment fraud, ethics, retirement planning, and career opportunities in finance and investment.

[CLICK HERE](#) to view the course video.

## Business Communications

Department: Business

Course Number: 7050-00

Open to Grade Level(s): 9, 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: None

NCAA Approved: No

Business Communication is a one-semester course designed to improve both written and spoken communications as they relate to business. Practical applications focusing on Communication/Culture, Management, Ethics, Leadership and Social Media will be taught. Students will apply these business skills to develop effective communication proficiencies that will help with future employment.

[CLICK HERE](#) to view the course video.

## Law Honors

Department: Business

Course Number: 7130-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 0.5

Credit Type: Honors

Prerequisite: None

ISBE College & Career Pathway:  
Human & Public Services

NCAA Approved: No

Law is a course designed to expose students to criminal and business law within the United States legal system. Students will examine the jail and prison system, arrests and how a case works through the court system. Students may participate in a mock trial; analyze current and past court cases and careers in the legal field. Contracts, property law, wills and trusts are also units of study in the course. Law is an excellent course for any student interested in the legal field, criminal justice or business.

This course is the orientation course for the Human & Public Services Pathway.

[CLICK HERE](#) to view the course video.

## Marketing in Sports and Entertainment

Department: Business

Course Number: 7070-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: None

NCAA Approved: No

This highly engaging one-semester class will emphasize marketing principles by providing students exposure to amateur and professional sports teams, entertainment businesses, and desirable companies. Students will have the opportunity to hear speakers in amateur and professional sports, entertainment, and technology industries. Current events will be emphasized. Areas of study will include the 4 Ps of marketing (promoting, pricing, product development, and place/distribution), case studies, sports and entertainment history, and careers in marketing.

[CLICK HERE](#) to view the course video.

## Marketing

Department: Business

Course Number: 7080-00

Open to Grade Level(s): 9, 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: None

NCAA Approved: No

During this one-semester course, students will learn about the various functions of marketing as an integrated set of tasks, built on a solid set of foundations (economics, finance, career preparation). Students will learn how each function fits with the others. This is marketing in the real world – integrated, strategic, and always changing. Coverage includes real-world applications, projects, technology, Internet, ethics, and cross-curricular link.

[CLICK HERE](#) to view the course video.

## Career Explorations

Department: Business

Course Number: 7140-00

Open to Grade Level(s): 9, 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: None

NCAA Approved: No

Career Exploration is a one-semester course for any student concentrating on their individual interests, abilities and aptitudes, and how these features can relate to career possibilities. Students will complete a modularized course which will empower them with the resources necessary to determine their career aspirations and enact that plan. When possible, students will participate in a Micro Internship or Job Shadowing experience. The course objectives are aligned with the PaCE Illinois post-secondary and career expectations framework. This course touches on all career pathways depending on the students' individual interests.

This course is also offered in a blended learning format (7140-01).

[CLICK HERE](#) to view the course video.

## Consumer Education

Department: Business

Course Number: 7150-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: None

NCAA Approved: No

The objective of this state-required course is to show how to become an informed consumer and how to make wise financial decisions. The student will learn to become a responsible consumer, learning why we buy what we buy, and how to make sound consumer decisions. The student will learn to stand up for one's rights in the marketplace as well as how to use credit wisely. Through the use of technology, the student will study how to manage money in order to gain the most satisfaction with one's purchasing power. This course satisfies the graduation requirement for Consumer Education.

This course is also offered in a blended learning format (7150-01).

[CLICK HERE](#) to view the course video.

## Consumer Education Honors

Department: Business

Course Number: 7160-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 0.5

Credit Type: Honors

Prerequisite: None

NCAA Approved: No

Consumer Education Honors is a one-semester course for the highly motivated student who will be challenged in a rigorous academic environment. The objective of this state-required course is to show how to become an informed consumer and how to make wise financial decisions. The student will learn to become a responsible consumer, learning why we buy what we buy, and how to make sound consumer decisions. The student will learn to stand up for one's rights in the marketplace as well as how to use credit wisely. Through the use of technology, the student will study how to manage money in order to gain the most satisfaction with one's purchasing power. The students will formulate a solution to the economic problems and challenges presented in their social, work, and consumer world. This course satisfies the graduation requirement for Consumer Education.

This course is also offered in a blended learning format (7160-01).

[CLICK HERE](#) to view the course video.



# ENGINEERING COURSE OFFERINGS

## Introduction to Engineering

**Department:** Engineering

**Course Number:** 7700-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**ISBE College & Career Pathway:**  
METT – Engineering

**NCAA Approved:** No

Intro to Engineering is a one-semester course that will introduce students to design, and, in particular, to AutoDesk's Computer Aided Drafting (CAD) software program called AutoCAD. Students will learn to design, sketch, and create a tangible object using cutting edge technology. Utilization of this technology will allow students to learn the basic concepts of engineering and the design process. These concepts include single view, three view, isometric drawings, as well as orthographic projection. This course is the orientation course for the METT Pathway.

[CLICK HERE](#) to view the course video.

## Principles of Robotics Engineering

**Department:** Engineering

**Course Number:** 7710-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**ISBE College & Career Pathway:** METT – Engineering

**NCAA Approved:** No

Principles of Robotics Engineering (PRE) is a hands-on, one-semester introductory course in which students will work collaboratively to explore the fundamentals of robust robotics design using the VEX robotics system. VEX ranges from a basic drive platform to robots with multi-axis arms and grabbing mechanisms. Students will learn basic building skills which will be applied towards the completion of more complex tasks such as robot automation and challenge completion. Students will also learn and apply the fundamentals of the design process, writing as engineers, gear ratios, basic kinematics, radio frequencies as well as simple electronics and wiring skills. They will also engage in Arduino microcontroller programming, including the building and programming/coding of sensors and LED's. PRE is aligned with the International Technology Education Association (ITEA) Standards for Technological Literacy. This course is the orientation course for the METT Pathway.

[CLICK HERE](#) to view the course video.

## Advanced Robotics Engineering

**Department:** Engineering

**Course Number:** 7720-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Principles of Robotics Engineering

**NCAA Approved:** No

Advanced Robotics Engineering (ARE) is a year-long advanced robotics course in which students will work with a partner to design and program complex robotics using the VEX robotics system. The field of photonics and optics will be introduced, and students will apply this knowledge through the use of sensors. Robot designs will be tested through the use of games and challenges; students will help create games that utilize a particular design skill or robotic ability. Advanced parts kits will be available for students to incorporate into their designs including gear kits, new wheels, chain and sprocket sets, and pulley and winch sets. Students will use VEX Code Pro to build upon their basic programming skills from Principles of Robotics to complete more complex tasks such as automation. Students will develop code that will allow their robot to utilize sensors to accommodate a given set of tasks without the input from a human. Students will use the VEX Remote control to utilize software that they have written which will allow the robot to be driven directly by a human, including the use of sensors to improve robot performance.

[CLICK HERE](#) to view the course video.

## Dual Credit Engineering Design Honors

**Department:** Engineering

**Course Number:** 7730-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors, Dual Credit

**College/University Partnership:**  
College of Lake County (CAD110)

**Prerequisite:** LZHS: Introduction to Engineering, Principles of Robotics Engineering, or Division Head Approval

**CLC:** Reading & Writing Readiness

**ISBE College & Career Pathway:**  
METT – Engineering

**NCAA Approved:** No

**Fee:** \$50

Dual Credit Engineering Design Honors is a year-long course in which students will build on the skills that they developed in Introduction to Engineering. Students will learn Autodesk Inventor solid modeling software, and will use it to create parametric 3D models, assemblies of multiple parts, and exploded presentation views.

Students will then use Inventor to create technical drawings of their parts, including section views, isometric (3D) view, and auxiliary views. Application of CAD skills will be through design problems in which students will use the design loop process to create a solution to a given problem; operational models will then be built for testing. Students will also be introduced to photonics and will use a Co2 laser cutting machine to fabricate parts for their prototype. This is also a Dual Credit class with College of Lake County in which students have the opportunity to earn 3 credit hours for CAD110. This course is the skill development course for the METT Pathway.

**Please note:** The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Dual Credit Advanced Engineering Honors

**Department:** Engineering

**Course Number:** 7740-01

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** Honors, Dual Credit

**College/University Partnership:**  
College of Lake County (CAD170)

**Prerequisite:** Dual Credit Engineering Design Honors

**ISBE College & Career Pathway:**  
METT – Engineering

**NCAA Approved:** No

**Fee:** \$50

Dual Credit Advanced Engineering Honors is a year-long course in which students will build on the skills that they developed in Introduction to Engineering and Dual Credit Engineering Design Honors. Students will continue to learn Autodesk Inventor solid modeling software, and will use it to create parametric 3D models. Students will then use Inventor to create technical drawings of their parts, including section views, isometric (3D) view, and auxiliary views. Application of CAD skills will be applied via design problems in which students will use the design loop process to create a solution to a given problem; operational models will then be built for testing. This is also a Dual Credit class with College of Lake County in which students have the opportunity to earn 3 credit hours for CAD170. This course is the capstone course for the METT Pathway. This course is offered in a blended learning format.

**Please note:** The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Dual Credit Senior Engineering Honors

**Department:** Engineering

**Course Number:** 7750-01

**Open to Grade Level(s):** 12

**Credit Amount:** 1

**Credit Type:** Honors, Dual Credit

**College/University Partnership:**  
College of Lake County (CAD270)

**Prerequisite:** Dual Credit Advanced Engineering Honors

**ISBE College & Career Pathway:**  
METT – Engineering

**NCAA Approved:** No

**Fee:** \$50

Dual Credit Senior Engineering Honors is a capstone class in which students who have participated in the Engineering program for their first three years of high school may explore in depth the fields of engineering design. Students will participate in the Northrop Grumman (NGC) High School Innovation Challenge; they will be mentored by NGC Engineers and Engineering manager throughout the project. The culmination of the project will be the Challenge Competition, in which students will test their design by competing with other local high school teams. This is also a Dual Credit class with College of Lake County in which students have the opportunity to earn 3 credit hours for CAD270. This course is the capstone course for the METT Pathway.

This course is offered in a blended learning format.

Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Architecture Design

**Department:** Engineering

**Course Number:** 7760-00

**Open to Grade Level(s):** 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Architecture Design allows students to learn all aspects of architecture, including building and construction methods, design factors, as well as how to generate a set of architectural plans. Students will begin the year working on a design for a single family ranch home.

Once this is complete they will follow the design process to generate sketches of various designs. The next topic will be AutoDesk Revit, which is an industry standard 3D Architectural Design program. Students will then create a 3D solid model of their design in Revit, with the end result being a full set of plans and a laser cut cardboard model of their home.

[CLICK HERE](#) to view the course video.

# FAMILY & CONSUMER SCIENCES COURSE OFFERINGS

## Interior Design

**Department:** Family & Consumer Sciences

**Course Number:** 7300-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Interior Design is a one-semester course that provides an opportunity for the student to explore and develop abilities in the areas of interior and fashion design. Students will utilize Design Thinking to create projects during each unit, as well as the principles of STEAM, which are a necessity in today's society. These will be studied in an activity-oriented laboratory environment. This is a non-repeatable course. [CLICK HERE](#) to view the course video.

## Fashion I

**Department:** Family & Consumer Sciences

**Course Number:** 7310-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Fashion I is a one-semester course designed for the student who is interested in exploring different aspects of the fashion world, fashion trends, wardrobe selection, design principles and elements, pattern fitting, and sewing skills. Previous sewing experience, while desirable, is not required. Students will be expected to complete several sewing projects in class. [CLICK HERE](#) to view the course video.

## Advanced Fashion

**Department:** Family & Consumer Sciences

**Course Number:** 7320-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Fashion I

**NCAA Approved:** No

Advanced Fashion is a one-semester course. Students will expand their knowledge of fashion design and sewing. Students will demonstrate more advanced skills in clothing construction as well as clothing alteration. They will complete challenging projects incorporating these techniques. Students will survey potential careers in the industry. This is a repeatable course. [CLICK HERE](#) to view the course video.

## Culinary Arts I: Basic Food Preparation Principles

**Department:** Family & Consumer Sciences

**Course Number:** 7350-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Do you already like to cook or do you want to learn how to cook? Culinary Arts I is for you! Culinary Arts I is a laboratory class in which students will be provided with an opportunity to become proficient in basic food preparation principles. Nutritional meal planning, buying and storing of food, as well as selection and use of equipment are incorporated into the class work. Students will integrate technology into cooking and use STEAM principles during each unit to see the science behind the WHY of cooking. Students will earn their ServSafe Food Handlers Certificate. This is a non-repeatable course. *\*A section of this course gives student leaders the opportunity to mentor students with differing abilities and assist them in their learning.* [CLICK HERE](#) to view the course video.

## Culinary Arts II: Advanced Food Preparation Principles

**Department:** Family & Consumer Sciences

**Course Number:** 7360-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Culinary Arts I: Basic Food Preparation Principles

**NCAA Approved:** No

In Culinary Arts II, the food challenges will bring out your competitive side while you learn! Culinary Arts II involves the study of advanced skills in preparing and serving foods. This course includes experimenting with preparation techniques, cooking a variety of foods and working with assorted small appliances. Students will hone their knife skills through multiple knife skills practice labs, become an expert at moist and dry heat cooking methods for a variety of foods, and explore specialty techniques and ingredients utilizing STEAM principles. This is a non-repeatable course. [CLICK HERE](#) to view the course video.

## Dual Credit Culinary Arts III: ServSafe

**Department:** Family & Consumer Sciences

**Course Number:** 7370-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** Honors, Dual Credit

**College/University Partnership:** College of Lake County (HCM113)

**Prerequisite:** Culinary Arts II: Advanced Food Preparation Principles

**NCAA Approved:** No

**Fee:** \$50

Culinary Arts III is designed for students who want to expand their knowledge and cooking skills. The students in this advanced class will apply culinary knowledge such as knife skills, cooking methods, and baking and pastry skills as they cook, plate and serve gourmet meals in this fast-paced course. Students are given the opportunity to choose their own recipes within each unit of study. The students will get to be innovative and use the Design Thinking process during a final project. They will also be enrolled in CLC for dual credit and have ability to earn their ServSafe Food Manager's License. **Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.** [CLICK HERE](#) to view the course video.

## Child Development

**Department:** Family & Consumer Sciences

**Course Number:** 7400-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**ISBE College & Career Pathway:** Human & Public Services – Education

**NCAA Approved:** No

Child Development is an introductory course designed to help the student gain a better understanding of the physical, cognitive, social/emotional and language development of young children from birth to age 12 with an in-depth focus on birth to 5. The unit topics include: pregnancy, health and safety, family relationships, parenting, and the study of the development and milestones of children from newborn through the toddler years. Students will earn an ECE Credential Level I certification and be eligible for a scholarship if they decide to pursue Early Childhood Education after high school. Students who complete this course are eligible to enroll in ECE I and participate in the Little Bears Preschool lab at the high school. This course is the orientation course for the Human & Public Services Pathway. [CLICK HERE](#) to view the course video.

## Early Childhood Education I: Introduction to the Preschool Lab

**Department:** Family & Consumer Sciences

**Course Number:** 7410-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Child Development

**NCAA Approved:** No

ECE I takes place in the Little Bears Preschool. This course provides the student an opportunity to apply the information learned in Child Development. Students will teach the preschoolers and be responsible for the planning, implementation, and evaluation of lessons. The students will utilize observation skills to formulate a final portfolio of a preschool student. [CLICK HERE](#) to view the course video.

## Early Childhood Education IV: Preschool Lab – Health and Safety

**Department:** Family & Consumer Sciences

**Course Number:** 7440-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Dual Credit Early Childhood Education III Honors: Creative Activities

**NCAA Approved:** No

ECE IV continues to allow students the ability to create and teach lessons to preschoolers. In this course students will also learn about the importance of keeping children safe while at preschool. Students will be expected to check toys and materials for safety and identify unsafe toys. Students will create nutritious meal plans that will be implemented during snack time. [CLICK HERE](#) to view the course video.

## Early Childhood Education II: Preschool Lab – Classroom Environment

**Department:** Family & Consumer Sciences

**Course Number:** 7420-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Early Childhood Education I: Introduction to the Preschool Lab

**NCAA Approved:** No

In ECE II, students will continue gaining confidence working with preschool aged children and will be given more opportunities to teach lessons. In addition to teaching lessons in the Little Bears Preschool, students will learn the importance of a positive classroom environment, creating bulletin boards, enhancing the classroom space, and creating a safe and welcoming environment.

[CLICK HERE](#) to view the course video.

## Early Childhood Education V: Preschool Lab – Leadership

**Department:** Family & Consumer Sciences

**Course Number:** 7450-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Early Childhood IV: Preschool Lab – Health and Safety

**NCAA Approved:** No

After successfully completing ECE levels I-IV, students will be responsible for the daily management of the preschool. In addition to teaching and implementing lessons, students will be designing and maintaining the Little Bears Preschool Website, creating newsletters and learning how to effectively communicate with parents.

[CLICK HERE](#) to view the course video.

## Dual Credit Early Childhood Education III Honors: Creative Activities

**Department:** Family & Consumer Sciences

**Course Number:** 7430-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** Honors, Dual Credit

**College/University Partnership:** College of Lake County (ECE116)

**Prerequisite:** Early Childhood Education II: Preschool Lab – Classroom Environment

**ISBE College & Career Pathway:** Human & Public Services – Education

**NCAA Approved:** No

**Fee:** \$50

ECE III is an overview of techniques used to develop creative activities for young children ages 3 through 8. Experiences will include the subjects: art, music, language arts, science, mathematics, and social play. Creative Activities is designed for students who may be interested in pursuing a career in early childhood care and education. This class contains hands-on experiences in planning and implementing activities, exchange of experiences and ideas, and group collaboration. Students will be creating projects and items to be used in the Little Bears Preschool program.

This course is the skill development course in the Human & Public Services Pathway. Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9. [CLICK HERE](#) to view the course video.

## Dual Credit Introduction to Teaching Honors

**Department:** Family & Consumer Sciences

**Course Number:** 7480-00

**Open to Grade Level(s):** 12

**Credit Amount:** 0.5

**Credit Type:** Honors, Dual Credit

**College/University Partnership:** College of Lake County (EDU121)

**Prerequisite:** [CLC Reading & Writing Readiness](#)

**ISBE College & Career Pathway:** Human & Public Services – Education

**NCAA Approved:** No

**Fee:** \$50

This course provides the prospective teacher with an introduction to teaching in American public schools. Topics include history and philosophy of education, school organization and governance, ethical and legal issues, the nature of teaching, curriculum, professional leadership, and current issues. This course will serve as the capstone to the child development sequence or an introduction to students interested in exploring teaching as a career. Successful completion of this course will enable the student to earn dual credit through the College of Lake County. This course is the capstone course in the Human & Public Services Pathway.

Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Adult Living

**Department:** Family & Consumer Sciences

**Course Number:** 7490-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This course focuses on the development and wellness of individuals and families throughout the life cycle, as well as credit, debt, consumerism and budgeting. It prepares students for life on their own. Students will analyze personal needs and characteristics and their effects on interpersonal relationships. Students will learn to be prepared for life in the adult world, with emphasis on emotional, social, and practical aspects of living.

This course satisfies the graduation requirement for Consumer Education.

[CLICK HERE](#) to view the course video.

## Single Survival

**Department:** Family & Consumer Sciences

**Course Number:** 7500-00

**Open to Grade Level(s):** 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This course will incorporate hands-on laboratory experiences in foods and nutrition to promote the development of a healthy lifestyle. Students will pursue a variety of cooking experiences and engage in strategies to support their personal goals to lead a healthy and balanced life. Topics will include: Analyzing eating habits; Food preparation and nutrition; Meal planning, Purchasing of food; Care and use of cooking equipment and appliances; Plan short term and long term goals and create a plan to reach them; "7 Habits of Highly Effective People"; Careers, Employment and college/ vocational studies; Communication

In this course students will work with the five Social-Emotional Learning competencies. They will continue to work on identifying their emotions, recognizing their strengths and their self-worth. They will learn about goal setting and being goal-oriented. Students will work on appreciating each other and respecting diversity. They will learn how to communicate, build relationships and work together as a team. Students will also learn how to identify and solve problems with their peer groups and families.

[CLICK HERE](#) to view the course video.





# LAKE COUNTY TECH CAMPUS

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT  
SCHOOL DISTRICT 95 IS TO  
EMPOWER EVERY LEARNER TO  
ACHIEVE PERSONAL EXCELLENCE.

## LZHS LEADERSHIP & PARTNERSHIP LIAISON OFFICER

**Ms. Niki Jensen**

Nicole.Jensen@lz95.org  
(847) 540-4145

**Mrs. Jean Remez**

Jean.Remez@lz95.org  
(847) 540-4117

## PROGRAM DESCRIPTION

The Lake County Tech Campus is designed to provide juniors and seniors an opportunity to receive specific training in a wide variety of career areas. The Tech Campus experience provides an educational environment that supports and encourages individual learning styles, develops occupational skills and professionalism, promotes academic growth, and assists students in discovering their potential. In addition to LZHS credit, Tech Campus offers dual credit in conjunction with the College of Lake County (CLC) and Missouri University of Science and Technology (Missouri S&T) in a number of different programs. For more information, [CLICK HERE](#).

Courses at the Lake County Tech Campus have specific time requirements. During the course registration process, students should talk with their counselor to design a schedule that will work for both Tech Campus and LZHS schedules. It is important to apply as early as possible; many Tech Campus courses have waiting lists for enrollment due to their popularity. LZHS provides transportation to and from Tech Campus; for this reason, driving separately is discouraged. There is a permission form process for both Tech Campus and LZHS for any student requesting special permission to drive to Tech Campus.

Because tuition is assumed by the school district, a fee of \$500 will be incurred if a Tech Campus Program is dropped after ten days once school has started, and a grade of WF will be assigned. In this instance, students will return to full-time enrollment at Lake Zurich High School to complete all required classes including Physical Education. Additionally, compliance with all rules established between Lake Zurich and the Tech Campus is essential. If a student is removed from a Tech Campus course due to disciplinary or attendance reasons after the first two weeks (10 days) of the school year, they will incur a fee of \$500 along with any applicable LZHS intervention.

Please note: The Lake County Tech Campus frequently updates their course offerings. [Please refer to their website](#) for the most up-to-date information. Below are all enrollment opportunities for the 2023-2024 school year.

# TECH CAMPUS COURSE OFFERINGS

## Cybersecurity

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9501-00 / 9502-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** Information Technology

**NCAA Approved:** No

The world runs on computers. This program is designed to give you a practical perspective on computer security, and approaches computer security in a way that anyone can understand. Learn how networks handle routing, DNS, load-balancing, and more. You'll receive light training in software development applications and other interactive media for mobile devices such as smartphones, tablets, and gaming applications that can run on a variety of platforms, then execute security measures to keep that data secure. (If you're seeking a game programming emphasis, see Game Programming & Virtualization)

Explore the fundamental building blocks of Cybersecurity. We will delve into Cybersecurity, giving a working knowledge of the vocabulary and the practice of protecting systems, networks, and programs from digital attacks. These cyberattacks are usually aimed at accessing, changing, or destroying sensitive information, extorting money from users, or interrupting normal business processes. This program will help you discover what cyber path is right for you!

This course is the capstone course in the Information Technology Pathway.

Students in this class are eligible to receive 6 college credits from the College of Lake County.

Year 1:

- CIT 131 – Windows Operating System, 3 credits
- CIT 139 – Cisco: Introduction to Networks, 3 credits

For more information, [CLICK HERE](#).

## Automotive Service

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9505-00 / 9506-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

This two-year program will provide you with a solid foundation of skills to enter the automotive service industry. Instruction will feature training on brakes, steering and suspension, electrical systems, and engine performance. Upon successful completion of this program, you'll be prepared to take the ASE (Automotive Service Excellence) certification exams in the areas emphasized in the program.

The four phases of our Automotive Service program (brakes, steering and suspension, electrical systems, and engine performance) will better prepare you for today's employers. You may even have a chance to work in a dealership as a paid intern while attending the Tech Campus. The program covers all the basics you need to start as an automotive technician. So gear up and strap yourself into a high performance career.

Students in this class are eligible to receive 4 college credits from the College of Lake County.

- AUT 110 – Introduction to Automotive, 4 credits

Certifications:

- Alldata Certified Information Specialist
- SP2 Certifications
- Valvoline Oil Change Certification

For more information, [CLICK HERE](#).

## Automotive Collision Repair

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9503-00 / 9504-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

Instruction in this two-year program emphasizes both the repair and the refinishing skills associated with restoring a damaged automobile to factory specifications. Using an industry-endorsed curriculum, you will develop core skills in automobile construction, sheet metal damage repair, MIG welding, and basic refinishing. Upon mastery of the skills in core areas, you'll advance into damage estimating, shop management, heavy collision repair, and finish matching.

In this program, you'll learn sheet metal and welding techniques, body alignment, finishing, and painting to get cars back on the road looking good. Internships take your hands and mind to the extreme, helping you discover which area of auto body is for you. Employers are always looking for highly qualified technicians – why can't it be you?

Students in this class are eligible to receive 3 college credits from the College of Lake County.

Year 1:

- ACR 110 – Introduction to Collision Repair, 3 credits

Certifications

- I-Car Certifications
- SP2 Certifications

For more information, [CLICK HERE](#).



## Biomedical Science

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9507-00 / 9508-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** Health Sciences & Technology

**NCAA Approved:** No

### YEAR ONE COURSES

#### Principles of Biomedical Science

PBS provides an introduction to biomedical science through exciting hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Students determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report. Students investigate lifestyle choices and medical treatments that might have prolonged the woman's life and demonstrate how the development of the disease is related to changes in human body systems.

#### Human Body Systems

In the Human Body Systems (HBS) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection and homeostasis. Students design experiments, investigate the structures and functions of the human body and use data acquisition software to monitor body functions, such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal model, perform 4 organ dissections, work through interesting real-world cases, and play the role of biomedical professionals to solve medical mysteries.

### YEAR TWO COURSES

#### Medical Interventions

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection, screen and evaluate the code in human DNA, evaluate cancer treatment options, and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

#### Biomedical Innovation

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.

9507-00: This course is the skill development course in the Health Sciences & Technology Pathway.

9508-00: This course is the capstone course in the Health Sciences & Technology Pathway.

**Students in this class are eligible to receive 6 college credits from Missouri University of Science and Technology.**

- BIO SCI 1943 – Introduction to Human Anatomy and Physiology I, 3 credits
- BIO SCI 1953 – Introduction to Human Anatomy and Physiology II, 3 credits

**Certifications:**

- CPR Certification

For more information, [CLICK HERE](#).

## Certified Nurse Assisting

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9509-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** Health Sciences & Technology

**NCAA Approved:** No

This program is designed to prepare students for employment as nurse assistants and for future entry into nursing education programs. This program leads to a CNA certification. Training will include the development of basic nursing and cardiopulmonary resuscitation skills through lecture, laboratory demonstrations, laboratory practice, and clinical experience. Instruction in this program includes a minimum of forty clinical hours held in long-term facilities in the community. Upon successful completion of this program, students will be eligible to take the written examination for the nurse assistant state certification. Students must be 16 years of age.

\*IDPH and our clinical offsite facilities are requiring students that complete a clinical experience to be fully vaccinated and boosted for COVID-19. What that means, as of now, is to be fully vaccinated and boosted. This is not a Tech Campus rule, but one from IDPH and the facilities we work with. Students can be in the Tech Campus CNA program vaccinated or not, however, if a student would like to be eligible for the CNA state licensure and the CLC dual credit, this will be a requirement. Students will still get high school credit for the program, just not licensure or dual credit.

Learning how to report observations, understanding the nature of diseases and common health problems, and the skills and techniques of how to take care of people is just the beginning. You will study how to help people recover from sickness and those that are disabled or injured. Practice these skills in a real hospital setting or in a nursing home on clinical internships. Turn your passion for helping others into a state nurse assistant certificate while still in high school. Certified Nurse Assistants are in high demand. Your heart for helping others can make a big difference!

This course is the capstone course of the Health Sciences & Technology Pathway.

Students in this class are eligible to receive 7 college credits from the College of Lake County.

- NUR 110 – Nurse Assisting, 7 credits

**Certifications:**

- CNA License
- CPR Certification
- Dementia Simulation Certification
- QSEP (COVID Training)

For more information, [CLICK HERE](#).

## Computer Support Services

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9511-00 / 9512-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

This two-year program will prepare you for careers in the computer field. You will learn how to install, maintain, upgrade, and repair computer hardware & software on workstations and network systems. It will also prepare you for the A+ Certification Exam. Upon successful completion of this program, you'll be able to diagnose hardware or software failures and perform the actions necessary to correct the problems based on knowledge of the system's operation.

Does the challenge of dismantling a computer and putting it back together sound cool to you? As a computer technician, you will know how to fix basic and advanced computer problems. You will learn how to troubleshoot hardware and software issues and how to upgrade computers for the latest high-powered applications. Before you know it, you'll be able to build your own computer.

Students in this class are eligible to receive 9 college credits from the College of Lake County.

- CIT 130 – Operating Systems for A+ Certification, 3 credits
- ELT 151 – PC Hardware Fundamentals, 3 credits (Articulated)
- ELT 152 – PC Peripherals and Troubleshooting, 3 credits (Articulated)

Certifications:

- Prep for CompTIA A+

For more information, [CLICK HERE](#).

## Construction Skills & Management

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9513-00 / 9514-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

The first year of this program offers an overview and analysis of conventional construction methods with a focus on Carpentry, HVAC, Electrical, Plumbing, environmental impacts on construction, and overall construction safety. The hands-on use of building materials and tools in various construction systems is emphasized, including basic design of temporary structures. To further enrich your experience, case studies and guest speakers are utilized to expose you to various professions and careers in the field.

In year two, you will learn all phases of planning and scheduling from the process of listing and sequencing to the development of the critical path network. In addition, you will review construction specifications and how they relate to national, state, and local building codes. Topics related to job safety and Occupational Safety and Health Administration (OSHA) regulations will also be discussed.

We bring the construction industry right to you with hands-on projects. You'll start with the basics like job safety and the proper use of construction tools. From there, we will help you develop your skills by working on a variety of construction projects. You can even reinforce your training by becoming a paid apprentice with a local company. Now is the time to nail down your future career!

Students in this class are eligible to receive 6 college credits from the College of Lake County.

Year 1:

- CMT 115 – Carpentry I, 3 credits

Year 2:

- CMT 116 – Carpentry II, 3 credits (Articulated) C

Certifications:

- American Ladder Institute Certification
- SP2 Certifications

For more information, [CLICK HERE](#).

## Cosmetology

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9515-00 / 9516-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 4

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

The Tech Campus offers a two-year Cosmetology program that includes nail technology. Over the course of the program, you will acquire the 1500 hours of experience required for licensing while learning how to perform shampoos, make-overs, facials, hair-styling, manicuring, sculptured nails, permanent waving, hair coloring, and cutting. Following the lab phase of the program, you'll reinforce your training by working on clients in the Tech Campus Creations Salon + Spa.

You'll keep pace with the fashion world through practice, instructor demonstrations, and working on clients in the Tech Campus Creations Salon + Spa. Internships in local salons are a great way to help you decide on your specialty. Our program puts you a cut above the rest as a hair stylist, nail technician, manicurist, makeup artist, or even a skin care specialist.

Certifications:

- IDFR Cosmetology License

For more information, [CLICK HERE](#).

## Criminal Justice

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9517-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** Human & Public Services

**NCAA Approved:** No

The class will cover ethical considerations for criminal justice professionals and challenges to police officers, as well as constitutional considerations for policing. The class will also cover the functions and structure of the court and judicial system. Further topics will include correctional institutions, current and pending court cases, juvenile justice, and role-playing opportunities related to criminal justice.

You will learn the legal process starting from the investigation, to the arrest, and the law behind it all. You will practice police tactical response maneuvers, courtroom proceedings through mock trials, and collecting evidence at a crime scene. All of this will bring you one step closer to becoming a police officer enforcing the law, a lawyer safeguarding the judicial process, or a correctional officer providing rehabilitation. This course is the capstone course for the Human & Public Services Pathway.

Students in this class are eligible to receive 3 college credits from the College of Lake County.

Year 1:

- CRJ 150 – Careers in Criminal Justice, 3 credits

Certifications:

- CPR Certification

For more information, [CLICK HERE](#).

## Early Education & Teaching

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9521-00 / 9522-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

This two-year program is designed to prepare you for a variety of careers serving children. You'll learn how to plan and implement age-appropriate activities in creative arts, math, science, music, and language for preschool children in the Tech Campus Preschool. Instruction will focus on the positive guidance of child behavior and all aspects of their development.

Start off by discovering how to guide child behavior and promote child safety and nutrition. Plan activities in art, music, science, math, language, large motor, and drama in one of our two preschool labs. Once you understand the emotional, social, intellectual, and physical aspects of young children, you can play an important role in making a positive difference in a child's life.

Students in this class are eligible to receive 9 college credits from the College of Lake County.

Year 1:

- ECE 116 – Creative Activities for Preschool, 3 credits

Year 2:

- ECE 117 – Creative Activities for Infants & Toddlers, 3 credits
- ECE 141 – Health, Safety & Nutrition, 3 credits

Certifications:

- CPR Certification
- Gateways to Opportunity ECE (Level 1)

For more information, [CLICK HERE](#).

## Culinary Arts

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9519-00 / 9520-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

This two-year program provides culinary and hospitality education designed to prepare you for the many positions in the hospitality industry. You'll gain skills and knowledge in cold and hot food preparation, nutrition, baking, pastry, menu planning, sanitation, equipment operation, inventory control, purchasing, and front-of-the-house customer service. Skills will be practiced in planning, organizing, and preparing culinary creations for special events, competitions, and the Tech Campus Café.

First, you'll learn what it takes to operate a safe and sanitary kitchen. Then knife skills, food preparation, classical cooking methods, nutrition, menu planning, and inventory control follow. After that, you'll serve up your tasty creations in the Tech Campus Café. You might even have a chance to show off your skills under the direction of a master chef in area restaurants as a culinary intern. Imagine yourself as a chef at a fine restaurant, a pastry artist at a four-star hotel, the owner of a successful catering company, or working on a luxury cruise ship while experiencing the taste of success! Students in this class are eligible to receive 10 college credits from the College of Lake County.

Students in this class are eligible to receive 10 college credits from the College of Lake County.

Year 1:

- HCM 110 – Introduction to the Hospitality Industry, 3 credits
- HCM 113 – Serv-Safe: Food Service Sanitation, 1 credit

Year 2:

- HCM 111 – Culinary Principles I, 3 credits
- HCM 212 – Menu Marketing and Management, 3 credits

Certifications:

- Illinois Safe Food Handlers Certification
- ServSafe Sanitation Managers Certification

For more information, [CLICK HERE](#).

## Emergency Medical Services

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9523-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** Health Sciences & Technology

**NCAA Approved:** No

This program prepares you to take the licensure examination of the Illinois Department of Public Health to become an EMT-B. Activities include clinical experience in a hospital emergency room and ride-alongs with local Fire/EMS departments. You'll also learn American Heart Association Healthcare Provider CPR, patient assessment, stabilization, and initial pre-hospital medical treatment of injured and ill patients. Students in this program must be seniors.

Learn how teamwork can make a lifesaving difference by mastering rescue techniques used by EMTs. Lessons in anatomy show you how the human body works, transforming you into an expert first responder. You'll also work alongside emergency room doctors, nurses, and paramedics in area hospital emergency rooms and fire departments during your required 40 hour internship.

This course is the skill development/capstone course in the Health Sciences & Technology Pathway.

Students in this class are eligible to receive 7 college credits from the College of Lake County.

Year 1:

- EMT 111 – Emergency Medical Technician – Basic, 7 credits

Certifications:

- CPR Certification
- EMT-B License
- National EMT Certification

For more information, [CLICK HERE](#).

## Firefighting

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9525-00 / 9526-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** Health Sciences & Technology

**NCAA Approved:** No

This program is designed to prepare you for entry-level firefighter positions. Topics covered include fire chemistry, personal protective clothing, identifying ropes, tying knots, using fire extinguishers, performing forcible entry, carrying and raising ladders, operating a self-contained breathing apparatus, employing search and rescue techniques, working with ventilation tools, and practicing hose evolutions on an operating fire engine.

As you train to become a firefighter, you'll learn how to extinguish, confine, or escape from fire. Begin by learning fire suppression, fire chemistry, forcible entry, and search and rescue techniques. Then practice what you've learned by performing drills with ropes, ladders, hoses, and a fire engine and ride along with local fire departments to see the skills you've learned in action.

This course is the skill development course in the Health Sciences & Technology Pathway.

Students in this class are eligible to receive 3 college credits from the College of Lake County.

Year 1:

- FST 111 – Introduction to Fire Science, 3 credits

Certifications:

- AHA CPR Certification / First Aid
- FEMA ICS-100 Certification
- IEMA Hazmat Awareness Certification

For more information, [CLICK HERE](#).

## Game Programming & Virtualization

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9527-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

This program is designed to provide instruction in the computer science field. You'll be able to develop video games & professional programs using realistic hands-on interdisciplinary exercises. The game programming curriculum will focus on industry standard coding languages. Additional training will cover 2D and 3D animation. You'll also work with virtual reality technologies that provide experience using complex data in a simulated real-world application.

First, you'll start with the fundamentals of programming. You're able to work at your own pace to understand the basics of programming and develop problem-solving skills. Once you have mastered the basics, you'll learn what it takes to design a video game from scratch. You will also learn how to create 3D characters and how to animate them. Combine all your skills to explore a career in game or mobile app development.

Students in this class are eligible to receive 3 college credits from the College of Lake County.

Year 1:

- CIT 134 – Introduction to Programming Concepts, 3 credits

For more information, [CLICK HERE](#).

## Industrial Technology

**Department:** Lake County Tech Campus – CLC's Advanced Technology Center (ATC), LZHS Innovation & Career Pathways

**LZHS Course Number:** 9529-00 / 9530-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** METT

**NCAA Approved:** No

Our Industrial Technology program, located at the College of Lake County's new Advanced Technology Center, will prepare you to work in a modern manufacturing environment, developing the skills you need to maintain, repair, and operate machinery and equipment in a high-tech, industrial setting. You'll gain "hands-on" experiences in hydraulics, machine alignment, electricity, and mechanical fundamentals. After acquiring skills in electronics, computerized equipment maintenance and preventative/predictive maintenance, you'll have the confidence and ability to work for industrial manufacturing companies, food manufacturing/processing plants, farms, industrial contract service providers, machine shops, construction companies, and welding/fabrication shops. This course is the capstone course for the METT Pathway.

Students in this class are eligible to receive 6 college credits from the College of Lake County.

Year 1:

- INT 114 – Mechatronics Measurement and Quantitative Skills, 2 credits
- INT 119 – Mechatronics Print Reading, 2 credits
- INT 150 – Mechanical Drives, 2 credits

Certifications:

- Mechanical Maintenance Technician Certificate

For more information, [CLICK HERE](#).

## Laser Technology

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9531-00 / 9532-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

Held at the College of Lake County, this two-year program provides training in photonics using state-of-the-art optical and laser equipment. Photonics is the technology of harnessing light and other forms of radiant energy whose quantum unit is the photon. It involves cutting-edge uses of lasers, optics, fiber-optics, and electro-optical devices in diverse fields of manufacturing, healthcare, telecommunication, environmental monitoring, homeland security, aerospace, green construction, and many others.

First, you will learn electronic laboratory techniques focusing on DC and AC circuit fundamentals using what you've learned in algebra and geometry. Then comes the principles of generating and harnessing light through the use of lasers and optics, fiber optics, solar cells and other applications. Light up your career prospects by learning photonics!

Students in this class are eligible to receive 16 credits from the College of Lake County.

Year 1:

- LPO 110 – Intro to Lasers, Photonics & Optics, 3 credits
- LPO 111 – Fundamentals of Light and Lasers, 4 credits
- LPO 112 – Elements of Photonics, 3 credits

Year 2:

- LPO 113 – Photonics Enabled Technologies, 3 credits
- ARM 156 – Electrical Systems I, 1 credit
- ARM 157 – Electrical Systems II, 1 credit
- ARM 158 – Electrical Systems III, 1 credit

For more information, [CLICK HERE](#).

## Law Enforcement & CSI

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9533-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** Human & Public Services

**NCAA Approved:** No

This program prepares you for careers in the policing field. The class will focus on police procedures that are standard to a new police officer and the steps that are necessary to continue into a policing career. The class will also explore basic crime scene investigation, interview and interrogation methods, and a study of criminal investigation. A police background check is required to participate in job shadows, internships, and ride-alongs at local police departments.

Have you ever seen Chicago PD or CSI on television and wondered how the crime was solved or why the judge withdrew evidence? You will learn the legal process starting from the investigation, to the arrest, and the laws behind it all. You will practice police tactical response maneuvers, courtroom proceedings through mock trials, and collecting evidence at a crime scene. Find out which law enforcement profession is right for you! This course is the orientation course for the Human & Public Services Pathway.

Students in this class are eligible to receive 3 college credits from the College of Lake County.

Year 1:

- CRJ 118 – Introduction to Forensics, 3 credits

Certifications:

- CPR Certification
- NIMS 100C, 200C, 700B, 800D

For more information, [CLICK HERE](#).

## Medical Assisting

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9535-00 / 9536-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** Health Sciences & Technology

**NCAA Approved:** No

This program introduces you to a wide variety of careers in the allied health field, including medical lab technician, medical assistant, and medical office professional. Training will include medical terminology, communication, body structure and function, vital sign measurement, principles of infection control, medical instrumentation, pharmacy technology, medical office assistant certification procedures, and microscope usage.

You'll be trained to work closely with physicians, physician assistants, and nurses through hands-on activities on how to read vital signs, sterilize medical equipment, and perform diagnostic testing. You'll learn about human anatomy, how to receive patients, and how to transcribe medical records. Join the growing healthcare field today!

This course is the skill development course of the Health Sciences & Technology Pathway.

Students in this class are eligible to receive 11 college credits from the College of Lake County.

Year 1:

- HIT 111 – Medical Terminology, 3 credits
- MOA 112 – Basic Medical Office and Billing Procedures, 4 credits
- MOA 111 – Introduction to Medical Assisting, 4 credits (Articulated)

Certifications:

- CPR Certification
- Healthcare Office Assistant Certification

For more information, [CLICK HERE](#).

## Multimedia Design

**Department:** Lake County Tech Campus, LZHS Innovation & Career Pathways

**LZHS Course Number:** 9537–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**NCAA Approved:** No

In the first year of Multimedia Design, you'll be introduced to design, art, and digital media through the exploration of 2–D and 3–D composition. Software programs such as Adobe Photoshop, Illustrator, and InDesign will be utilized to teach design concepts and create compositions. You'll also cover the basics of HTML website creation and the process of creating complex websites through the Adobe XD software. After second semester, you'll become certified in Adobe applications.

The second year has been developed to introduce you to digital video editing and other areas in the field of multimedia that coincide with the video editing process. You'll explore the art of video creation from capturing imagery, sound, editing, and exporting video. You'll also explore the world of 2–D animation from scriptwriting, storyboarding, transferring drawings to digital renderings, working with different file formats, and more.

Students in this class are eligible to receive 18 college credits from the College of Lake County.

Year 1:

- DMD 111 – Intro to Digital Media, 3 credits
- DMD 116 – Web Design and Development, 3 credits
- ART 129 – Introduction to Photography, 3 credits (Articulated)
- ART 149 – Photo Electric Imaging I, 3 credits (Articulated)

Year 2:

- DMD 233 – Digital Video Editing, 3 credits
- DMD 157 – Introduction to Animation, 3 credits

Certifications:

- Adobe Certified Professional Specialist Certification

For more information, [CLICK HERE](#).

## Welding/Fabrication

**Department:** Lake County Tech Campus – CLC's Advanced Technology Center (ATC), LZHS Innovation & Career Pathways

**LZHS Course Number:** 9539–00 / 9540–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 3

**Credit Type:** CP, Honors Option for Dual Credit Courses within Program

**ISBE College & Career Pathway:** METT (Welding/Fabrication & Laser Technology)

**NCAA Approved:** No

This two–year program provides hands–on experiences gained from extensive practice and application of knowledge in shop safety, oxy–fuel welding and burning, arc welding, (stick, MIG, TIG), plasma arc cutting, and automatic shape cutting. Layout and fit–up, blueprint reading, and weld symbols are used to fabricate a variety of metal projects. The American Welding Society (AWS) recognizes the Tech Campus Welding program as an Educational Instruction Member.

You'll learn MIG, TIG, stick, plasma, laser beam, electron beam, oxyacetylene, and electric arc techniques to join metals like steel and aluminum together. From ocean liners to mountain bikes, construction equipment to race cars, and oil platforms to space shuttles, welding holds the world together, so get fired up about a hot career in welding!

9539–00: This course is the skill development course for the METT Pathway.

9540–00: This course is the capstone course for the METT Pathway.

Students in this class are eligible to receive 12 college credits from the College of Lake County.

Year 1:

- WLD 113 – Welding Blueprint Reading, 3 credits
- WLD 170 – General Welding, 3 credits

Year 2:

- WLD 171 – Gas Welding, Cutting, and Brazing, 3 credits
- WLD 172 – Shielded Metal Arc Welding, 3 credits

Certifications:

- AWS Certification
- SP2 Certifications

For more information, [CLICK HERE](#).



# LITERACY & PERFORMING ARTS

LITERACY  
ENGLISH LEARNING & BILINGUAL  
DRAMA  
MUSIC

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## DIVISION LEADER

**Dr. Lauren Katzman**  
Lauren.Katzman@lz95.org  
(847) 540-4484

## DIVISION LEADER BIO

*Dr. Lauren Katzman has been a division head at Lake Zurich High School for the past 16 years. Before that, she was an English teacher at Buffalo Grove High School. Dr. Katzman studied English Literature at Cambridge University in England, has a bachelor's degree in English Education from the University of Illinois Champaign-Urbana, a master's degree in Literature, a master's degree in Educational Leadership, and a doctorate in Educational Leadership. Her passion is to help students communicate clearly, particularly in writing. Outside of school, Dr. Katzman enjoys spending time reading and biking with her family.*

## LITERACY PROGRAM DESCRIPTION

The LZHS English Department provides broad coverage of the texts of English, American and world literature. Through these sequential course offerings, students develop extensive knowledge of literature, progressively develop academic and creative writing skills, as well as enhance their knowledge and use of grammar, vocabulary, and communication skills.

- Every student is required to take four full years of English in order to graduate from Lake Zurich High School.
- Successful completion of English I, II, III, IV or two 0.5 semester courses are mandatory requirements for graduation. The fourth year of English may be completed through specific elective courses offered within the department if taken during the senior year. However, students need to check with their desired college(s) to find out if such elective coursework would be accepted as the fourth year English requirement.
- LZHS Literacy blended learning course offerings (as defined in the course descriptions below) follow a 3–2 model:
  - Three days of face-to-face instruction
  - Two days of flexible/virtual instruction
  - The teacher may require a student to attend all five days if a greater need for face-to-face instruction arises
  - Students may self-select participation in 4–5 days of face-to-face instruction

## RECOMMENDATION FOR PLACEMENT

- LZHS course sequences do not mandate that a student must stay on a given program or pathway throughout one's high school career. With demonstrated effective effort, motivation, and improved performance, a student may engage in a more rigorous course load or change course according to post-secondary goals during the course selection process.
- Recommendation for placement in any core course is based on performance and demonstration of effective effort. Each teacher monitors these two aspects and considers them in making a recommendation of placement for the student for the following year.
- Students, parents and guardians are welcome to contact the teacher or Literacy Division Head if concern about the recommendation arises.

## DRAMA PROGRAM DESCRIPTION

The LZHS Drama Department offers a unique opportunity to develop each student's potential to its highest level in both the performer and designer realm. As an actor, one can develop their skills in voice, movement, and characterization. As a designer, one can develop their ability to create original designs for a play.

- One credit is required in a humanities-related field in order to graduate from LZHS. Drama is a humanities field.

# MUSIC PROGRAM DESCRIPTION

The LZHS Music Department offers a unique opportunity to develop each student's potential to its highest level. Recognizing that students have unique combinations of abilities, needs, and goals, the music curriculum provides a series of learning opportunities that will fulfill both common and individual objectives.

- One credit is required in a humanities–related field in order to graduate from LZHS. Music is a humanities field.
- Many music courses require students to have previous experience. Please refer to the prerequisites listed in the course descriptions below for more information.
- There will be a \$50 fee for each enrollment in band, choir, and orchestra.
- College–bound students who aspire to study in a field related to music are recommended to take four full years of music.
- LZHS Music blended learning courses (as defined in the course descriptions below) follow a 4–1 model:
  - Four days of face–to–face instruction
  - One day of flexible/virtual instruction
  - The teacher may require a student to attend all five days if a greater need for face–to–face instruction arises
  - Students may self–select participation in 5 days of face–to–face instruction



# LITERACY COURSE OFFERINGS

## English I

**Department:** Literacy  
**Course Number:** 1100–00  
**Open to Grade Level(s):** 9  
**Credit Amount:** 1  
**Credit Type:** CP  
**Prerequisite:** [See Freshman Placement Guidelines](#)  
**NCAA Approved:** Yes

English I is an introduction to the literary analysis of fiction and includes the study of grammar, composition, vocabulary, and communication skills. Students will explore the varying methods authors use to create meaning in their works and can expect to read works of short fiction as well as longer pieces such as epic poetry and plays. These texts may include *Of Mice and Men*, *Night*, *The Odyssey*, and various works by Shakespeare. Students are also introduced to a writing process which will prepare them for the required compositions in subsequent English courses. Successful completion of this course is preparation for English II.  
*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to meet students' needs.*  
[CLICK HERE](#) to view the course video.

## English I Honors

**Department:** Literacy  
**Course Number:** 1110–00  
**Open to Grade Level(s):** 9  
**Credit Amount:** 1  
**Credit Type:** Honors  
**Prerequisite:** [See Freshman Placement Guidelines](#)  
**NCAA Approved:** Yes

English I Honors is an introduction to the literary analysis of fiction. Students will explore the varying methods authors use to create meaning in their works and can expect to read works of short fiction as well as longer pieces such as epic poetry and plays. These texts may include *Of Mice and Men*, *Night*, *The Odyssey*, and *Romeo and Juliet*. Students are also introduced to a writing process which will prepare them for the required compositions in subsequent English courses. At the honors level, more emphasis is placed on additional outside reading and writing projects. Honors students need to be highly motivated and demonstrate skills at a higher level of proficiency. Successful completion of this course is preparation for English II Honors or AP Seminar.  
[CLICK HERE](#) to view the course video.

## English II

**Department:** Literacy  
**Course Number:** 1200–00  
**Open to Grade Level(s):** 10  
**Credit Amount:** 1  
**Credit Type:** CP  
**Prerequisite:** English I  
**NCAA Approved:** Yes

English II is a survey of world literary forms. Students can expect to read both fiction and nonfiction texts from a variety of authors. Such texts may include *The Pearl*, *To Kill a Mockingbird*, and *A Long Way Gone*. In addition, this course continues to build upon the grammar skills, vocabulary skills, communication skills, and literary analysis writing introduced in English I. Successful completion of this course is preparation for English III.  
*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*  
[CLICK HERE](#) to view the course video.

## English II Honors

**Department:** Literacy  
**Course Number:** 1210–00  
**Open to Grade Level(s):** 10  
**Credit Amount:** 1  
**Credit Type:** Honors  
**Prerequisite:** English I  
**NCAA Approved:** Yes

English II Honors is a survey of world literary forms. The course focuses on literary analysis and utilizing outside research and sources. By their writing and reading in this course, students will not only be prepared for expository and argumentative essay writing in any curriculum, but also possess the reading, writing, speaking, and listening skills to succeed in future honors and/or AP courses. Texts may include collections of short stories, poems and non-fiction as well as the novels *Things Fall Apart* and *To Kill a Mockingbird*. Successful completion of this course is preparation for English III Honors, AP Seminar, or AP Language and Composition.  
[CLICK HERE](#) to view the course video.

## English III

**Department:** Literacy  
**Course Number:** 1300–00  
**Open to Grade Level(s):** 11  
**Credit Amount:** 1  
**Credit Type:** CP  
**Prerequisite:** English II  
**NCAA Approved:** Yes

English III is an introduction and examination of American literature. This course explores all types of American literature including short stories, essays, poetry, and novels as we explore our essential question: What is the American experience? This course continues to build upon the four pillars of literacy from English I and II: reading, writing, speaking, and listening. A key requirement of this course includes a research project where students explore choice topics and write an informative article, utilizing the Learning and Innovation Hub as well as our technology facilities. Successful completion of this course is preparation for English IV CP courses.  
This course is also offered in a blended format (1300–01).  
*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*  
[CLICK HERE](#) to view the course video.

## English III Honors

**Department:** Literacy  
**Course Number:** 1310–00  
**Open to Grade Level(s):** 11  
**Credit Amount:** 1  
**Credit Type:** Honors  
**Prerequisite:** English II  
**NCAA Approved:** Yes

English III Honors explores American Literature similar to English III with an additional emphasis placed on outside reading and writing assignments. Texts may include *Fahrenheit 451*, *The Handmaid's Tale*, *Montana 1948*, *The Great Gatsby*, and *The Things They Carried*. A literary analysis of a choice text utilizing the Learning and Innovation Hub and secondary research is also a requirement of this course. Honors students need to be highly motivated and demonstrate skills at a high level of proficiency. Successful completion of this course is preparation for English IV Honors, AP Literature and Composition, AP Research, or Dual Credit Composition Honors.  
[CLICK HERE](#) to view the course video.

## English IV World Literature

**Department:** Literacy  
**Course Number:** 1400–00  
**Open to Grade Level(s):** 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** English III  
**NCAA Approved:** Yes

World Literature offers students an opportunity to examine a variety of literature and is designed for the college bound student. This course covers literature from around the world, including Asia, the Middle East, South America, and Europe. Students study several short stories to begin addressing the Essential Question: What common experiences do all people encounter, regardless of time and place? Students also read one novel as a class, *A Thousand Splendid Suns*, and may also read and analyze a text independently. The writing content of this course is focused on expository, persuasive, and narrative writing. Papers consisting of critical reviews of works of literature are a requirement for the course. Students may also present their learning in informal and formal class presentations.

[CLICK HERE](#) to view the course video.

## English IV Composition

**Department:** Literacy  
**Course Number:** 1410–00  
**Open to Grade Level(s):** 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** English III  
**NCAA Approved:** Yes

English IV Composition is designed to prepare students for college-level writing so that they can experience success in any chosen college or career path. Students will set personal writing goals and be guided through a process to choose a topic of which they will research and write for a majority of the semester. Written assignments will focus on the clear explanation of information or presenting an argument, using quoted source material as support, structuring paragraphs and essays effectively, using precise word choice, and following standard conventions of grammar. By the end of the semester, students will write and present a college-level, research-based, persuasive argument. This course is also offered in a blended format (1410–01).

[CLICK HERE](#) to view the course video.

## English IV Contemporary Literature

**Department:** Literacy  
**Course Number:** 1420–00  
**Open to Grade Level(s):** 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** English III  
**NCAA Approved:** Yes

Contemporary Literature introduces students to popular and thought-provoking fiction and non-fiction works from the late 20th and 21st century. While the course teaches students to examine the purpose, audience, and style of a work to determine the universal regard for the texts, it also requires students to recognize, analyze, and debate the ethical and moral questions raised in the literature. By taking this course, students will explore a variety of contemporary genres, topics, and authors in a way that should aid them in introductory college humanities classes. Texts for the course may include John Green's *Paper Towns*, Trevor Noah's *Born a Crime* and selections from David Sedaris, Annie Proulx, and Neil Gaiman.

[CLICK HERE](#) to view the course video.

## English IV Writing/Analysis of Media Communications

**Department:** Literacy  
**Course Number:** 1430–00  
**Open to Grade Level(s):** 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** English III  
**NCAA Approved:** No

The objective of Writing/Analysis of Media Communications is to provide students the background knowledge and skills to become active and discerning consumers of media, and gain the necessary tools to increase their visual and social literacy skills. The first quarter is an examination of the way various media use bias to influence the decisions of consumers. Students will analyze various news articles, opinion pieces, and advertisements. The second quarter is a study of how filmmakers use the techniques specific to film to tell stories. Students will view select films in their entirety. They will also examine short films, film clips, and movie trailers. Through research, multiple written reports, discussions, and oral presentations, students will formulate inquiries and develop their own perspectives on the uses of media in society.

This course is also offered in a blended format (1430–01).

[CLICK HERE](#) to view the course video.

## English IV Honors

**Department:** Literacy  
**Course Number:** 1440–00  
**Open to Grade Level(s):** 12  
**Credit Amount:** 1  
**Credit Type:** Honors  
**Prerequisite:** English III, previous honors course experience recommended  
**NCAA Approved:** Yes

English IV Honors incorporates advanced literary forms, advanced interpretations of literature, and effective communication skills. This course emphasizes fiction through short stories, plays, and novels. Analytical and expository writing will be the focus of the writing portion of this course, but there is also time spent on personal and creative writing. Outside reading and extensive use of library resources is encouraged to improve students' vocabulary, reading stamina, and enjoyment of reading. This course is also offered in a blended format (1440–01).

[CLICK HERE](#) to view the course video.

## Creative Writing

**Department:** Literacy  
**Course Number:** 1500–00  
**Open to Grade Level(s):** 10, 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** Yes

Creative Writing is a semester-long course for the imaginative and creative writer. Students who have been successful in the course have typically maintained a "C" average or better in their English courses. Required student writings will take the form of poems, short stories, and creative non-fiction. Classroom discussions will focus on the evaluation of published models, an examination of the structures and literary devices used in writing, and practical methods for creating original works. In this course, students will engage in drafting, writing conferences with the teacher, small group workshops using student-chosen pieces, and revision.

[CLICK HERE](#) to view the course video.

## Journalism I

**Department:** Literacy  
**Course Number:** 1510–00  
**Open to Grade Level(s):** 9, 10, 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** Recommended completion of English courses with a grade of "C" or better or instructor recommendation  
**NCAA Approved:** Yes

Journalism I is the first in a series of sequential courses for the Bear Facts Student Media journalism program. In this course, students will build a foundational knowledge of news media and news writing. Students will develop skills and knowledge in the areas of news writing, journalism law and ethics, photography, and design. Activities include discussions of current events and the role of news media in modern society. Students in Journalism I function as an auxiliary part of the Bear Facts Media staff by reporting on school-related events as they practice and develop news writing skills. Students are eligible to move forward through the journalism pathway, take Adobe design certification exams, as well as participate in and be considered for leadership positions on the Bear Facts Student Media staff only by completing Journalism I and II. While there are certification opportunities through this program/pathway, this course is an elective and does not count towards the English graduation requirement.

[CLICK HERE](#) to view the course video.

## Journalism II

**Department:** Literacy

**Course Number:** 1520–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Completion of Journalism I with a grade of "C" or better or instructor recommendation

**NCAA Approved:** Yes

Journalism II is the second in a series of sequential courses for the Bear Facts Student Media journalism program/pathway. In this course, students will continue to build on the skills and knowledge they developed over the course of Journalism I and continue to build skills and understanding of journalism in the areas of journalism law and ethics as well as writing news, opinion, feature, and/or sportswriting. These styles of news writing demand advanced organization and delivery. Students will also continue to refine and advance their skills in photography and design using Adobe Photoshop and InDesign. Students in Journalism II function as an auxiliary part of the Bear Facts Media staff by reporting on school–related events as they practice and develop news writing skills. Students may work on and be published in the Bear Facts magazine, website, and/or social media accounts throughout the semester. Students are eligible to move forward through the journalism pathway, take Adobe design certification exams, as well as participate in and be considered for leadership positions on the Bear Facts Student Media staff only by completing Journalism I and II. While there are certification opportunities through this program/pathway, this course is an elective and does not count towards the English graduation requirement. [CLICK HERE](#) to view the course video.

## Transitional English: Introduction to Rhetoric

**Department:** Literacy

**Course Number:** 1550–00

**Open to Grade Level(s):** 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Introduction to Rhetoric is a course designed to introduce students to the conventions of academic writing and critical thinking. The goal is to prepare students for the rigors of college through the development of the skills necessary for analyzing and synthesizing information. In this writing intensive course, students read, analyze, discuss and critically respond to non–fiction texts that may be organized around themes, critical issues or concepts that direct students' focus to larger ideas. Students write in a variety of modes, both formal and informal, for a variety of audiences, developing an ability to analyze the arguments and style of a given text and articulate their response to that text in an engaging and academic style. The creation and development of an argumentative thesis–based essay, along with its entire drafting process, will serve as the cornerstone for most assessment in this course. All essays will be evidence–based (textually–supported) and use logical arguments to persuade an audience and/or analyze the persuasion of an author. We will use various forms of texts and visual media such as photographs, films, advertisements, comic strips, and music videos and learn how to respond to this type of media. [CLICK HERE](#) to view the course video.

## Advanced Journalism Honors

**Department:** Literacy

**Course Number:** 1530–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Journalism I & II, instructor recommendation required

**NCAA Approved:** No

Advanced Journalism is a year–long course that requires students to have mastered the content and skills presented in the curriculum of Journalism I and II. Students in the Advanced Journalism course will put their skills and knowledge into practice by managing all aspects of Bear Facts Student Media: content creation and production of the Bear Facts Magazine (distributed quarterly), publishing stories to LZBearFacts.com, and utilizing various social media platforms. This course emphasizes and demands advanced writing, editing, and design skills for autonomous and collaborative work towards assigned deadlines for various aspects of the Bear Facts publications. Students are expected to practice digital photography, photographic editing, artistic and graphic design, as well as visual storytelling through their work. This course is the final element and culmination of the journalism program/pathway. While there are certification opportunities through this program/pathway, this course is an elective and does not count towards the English graduation requirement. [CLICK HERE](#) to view the course video.

## Dual Credit Composition I Honors

**Department:** Literacy

**Course Number:** 1700–01

**Open to Grade Level(s):** 12

**Credit Amount:** 0.5

**Credit Type:** Honors, Dual Credit

**College/University Partnership:** College of Lake County (ENG 121)

**Prerequisite:** English III and [CLC Reading & Writing Readiness](#)

**NCAA Approved:** Yes

**Fee:** \$50

By taking Dual Credit Composition I Honors students will obtain college credit while in high school in addition to honors high school credit. The syllabus and assignments will follow the requirements of the College of Lake County course English 121 Composition I. This course is designed to help students develop their competence in college–level writing and in the analysis of texts so they can enter the dialogue of the academic community. This course includes the analysis and practice of argument and the use of critical thinking to read, analyze, and produce college level texts. In addition, this is a workshop course where students will be producing and revising written work frequently. This course is offered in a blended format. Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9. [CLICK HERE](#) to view the course video.

## Reading Strategies

**Department:** Literacy

**Course Number:** 1540–00

**Open to Grade Level(s):** 9

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This intervention course is for freshmen who need to improve their comprehension, academic vocabulary, and acquire the reading and writing strategies needed to be a successful student. Students explore various genres of literature and text in order to practice reading strategies to show comprehension. Students will experience many activities and strategies (whole class, group, and individual) that will help to increase their reading abilities in all subject areas. Students will set goals to improve skills while building the confidence needed to be successful in core subject areas. Grades are pass/fail only. This course is a full–year English elective and does not count towards the English graduation requirement. [CLICK HERE](#) to view the course video.

## Dual Credit Composition II Honors

**Department:** Literacy

**Course Number:** 1710–01

**Open to Grade Level(s):** 12

**Credit Amount:** 0.5

**Credit Type:** Honors, Dual Credit

**College/University Partnership:**  
College of Lake County (ENG 122)

**Prerequisite:** C or higher in Dual Credit Composition I Honors and [CLC Reading & Writing Readiness](#)

**NCAA Approved:** Yes

**Fee:** \$50

By taking Dual Credit Composition II Honors students will obtain college credit while in high school in addition to honors high school credit. The syllabus and assignments will follow the requirements of the College of Lake County course English 122 Composition II. This course will supplement the work done in Dual Credit Composition I Honors by providing students more experience as academic writers, readers, researchers, and critical thinkers. To help students consider their own meaning while engaging with the texts of others, they will develop the ability to collect, evaluate, and incorporate varied sources in thoughtfully written analysis and arguments. Student work should demonstrate the ability to position themselves within the context of academic and societal conversation using a variety of texts, which may include literature, arguments on various issues, news articles, films, advertisements, and websites. In addition, this is a workshop course where students will be producing and revising written work frequently.

This course is offered in a blended format.

Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Dual Credit Public Speaking Honors

**Department:** Literacy

**Course Number:** 1720–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** Honors, Dual Credit

**College/University Partnership:**  
College of Lake County (CMM 121)

**Prerequisite:** [CLC Reading & Writing Readiness](#)

**NCAA Approved:** Yes

**Fee:** \$50

This dual credit course provides students with an introduction to the fundamentals of public speaking. This course combines a theoretical basis with practical verbal and nonverbal skills to enhance public speaking effectiveness. Students learn how to develop, research, organize, adapt, deliver and critique messages. Students are offered ways to increase learning outcomes through: reading course materials, viewing instructional and example video recordings, lecture, discussion, interactive application exercises, and self/peer/instructor evaluations.

Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## AP Seminar

**Department:** Literacy

**Course Number:** 1800–00

**Open to Grade Level(s):** 10, 11

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** English I

**NCAA Approved:** Yes

Advanced Placement Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to synthesize information from multiple sources to develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. While there are no required texts, students will read and analyze a variety of texts in different forms and media. Students practice reading and analyzing articles, research studies, literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. AP Seminar is the first of a two course sequence; successful completion of this course is preparation for AP Research.

[CLICK HERE](#) to view the course video.

## AP Research

**Department:** Literacy

**Course Number:** 1810–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** AP Seminar

**NCAA Approved:** Yes

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

[CLICK HERE](#) to view the course video.

## AP Language and Composition

**Department:** Literacy

**Course Number:** 1820–00

**Open to Grade Level(s):** 11

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** English II

**NCAA Approved:** Yes

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text—from a range of disciplines and historical periods. By their writing and reading in this course, students will not only be prepared for the AP English Language and Composition Exam but also for the level of critical thinking and effective writing necessary to succeed in a collegiate level English or composition course. Non-fiction texts for the course may include excerpts from Maya Angelou's I Know Why the Caged Bird Sings, Henry David Thoreau's Civil Disobedience, and Barbara Ehrenreich's Nickel and Dimed; works of fiction may include F. Scott Fitzgerald's The Great Gatsby and Zora Neal Hurston's Their Eyes Were Watching God. Successful completion of this course is preparation for English IV Honors, AP Literature and Composition, AP Research, or Dual Credit Composition Honors.

[CLICK HERE](#) to view the course video.

## AP Literature and Composition

**Department:** Literacy

**Course Number:** 1830–00

**Open to Grade Level(s):** 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** English III or Division Head Approval; previous honors level course experience recommended

**NCAA Approved:** Yes

The AP Literature and Composition course is designed to parallel a first-year college intensive writing course in literature. The course is dedicated to developing students' critical thinking skills; inculcating within students the methods of traditional literary analysis; encouraging multiple interpretations of both discrete texts and broader human behavior; providing extensive practice writing and reading in English; and rewarding original thinking and personal goal-setting. The course includes the close reading and analysis of literature from many different periods in history, cultures, and traditions. Texts may include The Awakening, Grendel, Oedipus Rex, Brave New World, 1984, Siddhartha, and The Importance of Being Earnest. Writing assignments, quizzes, and analysis exercises are all based on recent AP exams and recommended methods of instruction. The course is designed to help students prepare for the AP English Literature and Composition Exam offered for advanced placement and/or credit in the freshman year of college.

[CLICK HERE](#) to view the course video.

## English Language Learning: Resource

**Department:** English Learning & Bilingual

**Course Number:** 1600-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

ELL Resource is a class where ELL students receive extra support from teachers to achieve success in all core academic classes. During ELL Resource, students may use accommodations for assessments, receive reinforcement of instruction, or request support in completing assignments. Throughout the year, students will develop academic and SEL skills that will prepare them for success outside of the ELL program. Grades are pass/fail only.

[CLICK HERE](#) to view the course video.

## English Language Learning: Intermediate

**Department:** English Learning & Bilingual

**Course Number:** 1620-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This class builds upon the skills developed in Beginning ELL. Students are challenged to expand their vocabulary and incorporate more complex structures into their speaking and writing. Each year, curriculum is tailored to students' current levels and areas of growth. ELL courses incorporate skill development in the areas of reading, writing, speaking, and listening, with many opportunities for practice and feedback. Content includes a variety of texts and audio: novels, short stories, poetry, non-fiction articles, and more. Placement in this course is determined by ACCESS score/proficiency level.

[CLICK HERE](#) to view the course video.

## English Language Learning: Beginning

**Department:** English Learning & Bilingual

**Course Number:** 1610-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This class introduces students to the English language, focusing on survival language skills and helping new speakers become comfortable speaking in both conversational and presentational settings. Each year, curriculum is tailored to students' current levels and areas of growth. ELL courses incorporate skill development in the areas of reading, writing, speaking, and listening, with many opportunities for practice and feedback. Content includes a variety of texts and audio: novels, short stories, poetry, non-fiction articles, and more. Placement in this course is determined by ACCESS score/proficiency level.

[CLICK HERE](#) to view the course video.

## English Language Learning: Advanced

**Department:** English Learning & Bilingual

**Course Number:** 1630-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

In this class, students will continue to build the skills and knowledge of the English language. Students will read a variety of texts, which may include *Bite of the Mango*, *A Long Way Gone*, *The Pearl*, and *To Kill a Mockingbird*. Students will also read short stories, poetry, and non-fiction articles. The class will also focus on grammar and writing skills through literary analysis and research. The goal for the class is help students continue to build their language proficiency level and their literacy skills in order to prepare them for entering regular education English classes. Placement in this course is determined by ACCESS score/proficiency level.

[CLICK HERE](#) to view the course video.

# DRAMA COURSE OFFERINGS

## Acting

Department: Drama

Course Number: 8300-00

Open to Grade Level(s): 9, 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: None

NCAA Approved: No

Acting focuses on creating honest, believable characters and situations. The course begins with theatre and improv games to create a sense of ensemble and collaboration. Monologues and scenes are rehearsed and performed to focus around developing the actor's voice, body, and imagination. [CLICK HERE](#) to view the course video.

## Advanced Acting and Directing

Department: Drama

Course Number: 8310-00

Open to Grade Level(s): 9, 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: Acting

NCAA Approved: No

Students will rehearse, act, and direct in five minute plays for a public performance for an audience. The first part of the course focuses on advanced acting styles to deepen how one creates a character. Advanced acting and scripts will be used to further the styles and literature in the actor's repertoire. In the second portion, each student will select a five minute play to direct. They will learn how a director chooses a script, analyzes a script, develops a concept, rehearses with actors, and integrates design choices. This course is repeatable. [CLICK HERE](#) to view the course video.

## Design for Theatre

Department: Drama

Course Number: 8320-00

Open to Grade Level(s): 9, 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: None

NCAA Approved: No

Students will learn an overview of the design elements for scenery, lighting, sound, stage management, props, publicity and costumes. Emphasis is on the effective use of line, color, light and space in designing a concept that is both functional and artistic. This course is project based, as each design will be original and unique to the designer. [CLICK HERE](#) to view the course video.

## Advanced Design for Theatre

Department: Drama

Course Number: 8330-00

Open to Grade Level(s): 9, 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: Design for Theatre

NCAA Approved: No

Students will learn an overview of the design elements of the theatre or the student may take this course as an independent study of specialized interest through the functions and responsibilities of the various areas of theatrical design. [CLICK HERE](#) to view the course video.

## Advanced Studio Theatre I Honors

Department: Drama

Course Number: 8340-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 0.5

Credit Type: Honors

Prerequisite: Advanced Acting and Directing or Design for Theatre

NCAA Approved: No

Advanced topics include musical theatre, makeup, fight choreography, accents, comedy, Shakespeare, prop-making, producing, and contemporary and historical scripts. Students may choose a performance, design, or research route for each unit of study. The units rotate every other year so the course is repeatable. [CLICK HERE](#) to view the course video.

## Advanced Studio Theatre II Honors

Department: Drama

Course Number: 8350-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 0.5

Credit Type: Honors

Prerequisite: Advanced Studio Theatre I Honors

NCAA Approved: No

Advanced topics include musical theatre, makeup, fight choreography, accents, comedy, Shakespeare, prop-making, producing, and contemporary and historical scripts. Students may choose a performance, design, or research route for each unit of study. The units rotate every other year so the course is repeatable. [CLICK HERE](#) to view the course video.

## Digital Media Production

Department: Drama

Course Number: 8360-00

Open to Grade Level(s): 9, 10, 11, 12

Credit Amount: 0.5

Credit Type: CP

Prerequisite: None

NCAA Approved: No

Digital Media Production explores the art of filmmaking. This hands-on class teaches students how to write, shoot, edit and produce a series of original commercials and films tailored to their interests. This course utilizes visual storytelling; the students will work independently and collaborate in small group settings. Students will analyze and apply key concepts of storyboarding, screenwriting, and framing a shot. [CLICK HERE](#) to view the course video.

## Dual Credit Experiencing College Theatre Honors

Department: Drama

Course Number: 8370-00

Open to Grade Level(s): 11, 12

Credit Amount: 0.5

Credit Type: Honors, Dual Credit

College/University Partnership: College of Lake County (THE121)

Prerequisite: [CLC Reading & Writing Readiness Standards](#)

NCAA Approved: No

Fee: \$50

This course explores the elements, artists and collaborative process of live theatre. It includes the study and analysis of historical, social, aesthetic and technical aspects of traditional and contemporary theatrical production. Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9. [CLICK HERE](#) to view the course video.

# MUSIC COURSE OFFERINGS

## Concert Band

**Department:** Music

**Course Number:** 8510-00

**Open to Grade Level(s):** 9

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Four years of playing experience or by audition

**NCAA Approved:** No

**Fee:** \$50

Participation in the LZHS Band occurs in two parts: Marching and Concert Band. All members of the band are members of the marching band unless they apply to be exempt in the spring of the prior year. Marching Band begins in late summer with a three-day band camp (usually at Carthage College in Kenosha). This camp is dual purpose: We learn everything we need to have a great marching season and of equal importance, it builds a camaraderie unique to band. The marching band performs at home football games and the annual Band-O-Rama concert. The marching band has also traditionally taken a trip every three years participating in parades in Ireland, England, Spain, to name a few. Students will also have the opportunity to be a part of the basketball pep band during the winter. Concert Band builds upon skills developed in Middle School. The challenge of the music increases, but so does the satisfaction when the music is performed well. Concert Band begins after the marching season, performing in at least three concerts with the Symphonic Band and Wind Ensemble. The band rehearses daily with the goal of challenging students individually while still bringing them together as one group! No one has to sit the bench—the more each student grows the better the band gets—it's just that simple! Our focus is developing our students as musicians and people.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Symphonic Band

**Department:** Music

**Course Number:** 8520-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Concert Band  
All students must be members of the marching band. Juniors and seniors may opt out of marching band in the spring by application.

**NCAA Approved:** No

**Fee:** \$50

Participation in the LZHS Band occurs in two parts: Marching and Concert Band. All members of the band are members of the marching band unless they apply to be exempt in the spring of the prior year. Marching band begins in late summer with a three-day band camp (usually at Carthage College in Kenosha). This camp is dual purpose: We learn everything we need to have a great marching season and of equal importance, it builds a camaraderie unique to band. The marching band performs at home football games and the annual Band-O-Rama concert. The marching band has also traditionally taken a trip every three years participating in parades in Ireland, England, Spain, to name a few. Students will also have the opportunity to be a part of the basketball pep band during the winter. After the season ends, the band splits into three concert groups for the rest of the year. Sophomores through seniors play in the Symphonic Band. The goal of concert season is to challenge students individually while still bringing them together into one great sounding cohesive group. They'll learn to play in many different styles of music through which they will grow in the areas of musicality, intonation, tone production, and even music history. Through their experiences in Symphonic Band, students gain the ability to audition into Wind Ensemble. The main focus of band is to aid in students' musical growth as well as helping them become strong members of society. It is our desire that students exit the band program with a love and passion for participating in and enjoying music for the rest of their lives. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Wind Ensemble Honors

**Department:** Music

**Course Number:** 8530-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Concert Band  
All students must be members of the marching band. Juniors and seniors may opt out of marching band in the spring by application.

**NCAA Approved:** No

**Fee:** \$50

Participation in the LZHS Band occurs in two parts: Marching and Concert Band. All members of the band are members of the marching band unless they apply to be exempt in the spring of the prior year. Marching band begins in late summer with a three-day band camp (usually at Carthage College in Kenosha). This camp is dual purpose: We learn everything we need to have a great marching season and of equal importance, it builds a camaraderie unique to band. The marching band performs at home football games and the annual Band-O-Rama concert. The marching band has also traditionally taken a trip every three years participating in parades in Ireland, England, Spain, to name a few. Students will also have the opportunity to be a part of the basketball pep band during the winter. Wind Ensemble is available by audition only and is an honors level course due to greater expectations of practicing and preparation. Many students study their instrument privately. The Wind Ensemble performs four to five times per year, playing music in a wide range of styles and genres. Improved technique, musicality, intonation, tone, and understanding of history are all goals of the course. The main focus of band is to aid in students' musical growth as well as helping them become strong members of society. It is our desire that students exit the band program with a love and passion for participating in and enjoying music for the rest of their lives. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Jazz Lab Band

**Department:** Music

**Course Number:** 8540-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Previous one-year completion or concurrent enrollment in Concert Band, Symphonic Band, Wind Ensemble, AP Music Theory or have significant musical experience. Enrollment by audition/instructor approval required.

**NCAA Approved:** No

**Fee:** \$50

Do you love playing an instrument and want to learn to play it in popular styles of music? Do you play the guitar, piano, or bass, are not in band, but want to get better by playing every day? Then Jazz Lab Band is for you! Jazz Lab Band is our entry level group of 20-25 musicians learning to play in a big band setting. We learn to play music in many styles such as swing, fusion rock, funk and Latin. Improvisation is a key component to jazz and we will help you develop confidence in this skill over time. Don't worry, we won't make you play by yourself if you don't want to! The jazz program performs three formal concerts each year as well as local jazz festivals. Students are encouraged to study privately. The course is open to saxophone, trumpet, trombone and percussionists that are enrolled in band at the high school for one year. Piano, bass and guitar players do not have this requirement. Auditions are held in the spring if necessary, but anyone interested in the course should sign up, regardless of audition. This band has traditionally traveled to New Orleans every 3 years for performances and community service. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Jazz Ensemble Honors

**Department:** Music

**Course Number:** 8550–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Previous one–year completion or concurrent enrollment in Concert Band, Symphonic Band, Wind Ensemble, AP Music Theory or have significant musical experience. Enrollment by audition/instructor approval required.

**NCAA Approved:** No

**Fee:** \$50

Jazz Ensemble is a select group of 18–20 musicians with experience playing in jazz lab band. These students are serious about playing at a high level in a wide variety of jazz and contemporary styles. Improvisation is important, and while not everyone solos, everyone is expected to keep working at becoming a better improviser. Listening, lessons, transcribing and practicing with tracks all make for better players and a more enjoyable experience. The jazz ensemble plays three formal concerts each year, with other performances scheduled at jazz festivals and opening for semi–professional bands at local clubs. Students are encouraged to study privately. The course is open to saxophone, trumpet, trombone and percussionists that have been enrolled in band at the high school for one year. Piano, bass and guitar players do not have this requirement. Auditions are held in the spring if necessary, but anyone interested in the course should sign up, regardless of audition. The band has traditionally traveled to New Orleans every 3 years for performances and community service. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Concert Orchestra

**Department:** Music

**Course Number:** 8590–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Four years of playing experience

**NCAA Approved:** No

**Fee:** \$50

Concert Orchestra is an auditioned string orchestra open to students 9–12 with previous string playing experience. Concert Orchestra students will perform in at least four concerts per year while working on improving their fundamental string playing skills, including shifting, bowing/articulation, and vibrato. Students who participate in Concert Orchestra can also participate in Bear Strings (the pop string ensemble at LZHS) and Sinfonietta (the premiere after–school chamber ensemble at LZHS). Other opportunities for students in Concert Orchestra are: ILMEA, Solo and Ensemble, and Orchestra Board. Students who participate in Concert Orchestra may choose to attend orchestra tours that happen every three years, including international and out of state tours. It is the goal that all orchestra students become lifelong consumers of music: participating as performers, attending concerts, and being part of the general music community.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Philharmonic Orchestra

**Department:** Music

**Course Number:** 8600–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Four years of playing experience

**NCAA Approved:** No

**Fee:** \$50

Philharmonic Orchestra is an auditioned string orchestra open to students 9–12 with previous string playing experience. Philharmonic students will perform in at least four concerts per year with an emphasis on techniques to improve facility in advanced shifting and bowing. Students who participate in Philharmonic can also participate in Bear Strings (the pop string ensemble at LZHS) and Sinfonietta (the premiere after–school chamber ensemble at LZHS). Other opportunities for students in Philharmonic are: ILMEA, Solo and Ensemble, and Orchestra Board. Students who participate in Concert Orchestra may choose to attend orchestra tours that happen every three years, including international and out of state tours. It is the goal that all orchestra students become lifelong consumers of music: participating as performers, attending concerts, and being part of the general music community.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Symphony Orchestra Honors

**Department:** Music

**Course Number:** 8610–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** At least 1 year of Concert Orchestra and/or audition

**NCAA Approved:** No

**Fee:** \$50

Symphony Orchestra is the top, auditioned, curricular orchestra. Students are encouraged to study privately and will perform at least 4 concerts during the school year. Symphony members will also participate in festivals including the University of Illinois Orchestra Festival at UIUC. The orchestra performs 3 concerts with wind players and has performed major symphonic works including Beethoven's 5th Symphony, Elgar's Enigma Variations, and Haydn's Symphony 104. Symphony Orchestra also performs new works and has participated in commissions. Along with full orchestra music, students will also work in small chamber ensembles to prepare for the solo and ensemble festival in March. Students who participate in Symphony Orchestra can also participate in Bear Strings (the pop string ensemble at LZHS) and Sinfonietta (the premiere after–school chamber ensemble at LZHS). Other opportunities for students in Symphony Orchestra are: ILMEA, Solo and Ensemble, the LZHS Concert Competition, and Orchestra Board. Students who participate in Symphony Orchestra can choose to attend orchestra tours that happen every three years, including international and out of state tours. It is the goal that all orchestra students become lifelong consumers of music: participating as performers, attending concerts, and being part of the general music community.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Bel Canto

**Department:** Music

**Course Number:** 8660–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

**Fee:** \$50

Bel Canto is a beginning soprano and alto ensemble open to all those interested in vocal instruction. We would love to have you singing with us! Bel Canto teaches basic techniques required for singing in a vocal ensemble including proper breathing, tone production, diction, blend, basic music theory, and sight singing. These concepts are learned through an exciting variety of music from classical styles to today's contemporary pop music. Bel Canto will perform regularly at concerts and may also prepare music to be performed with other choral ensembles. Awesome opportunities for student leadership exist. In addition, Bel Canto will have the opportunity to go on an out–of–state performance on a rotating year basis. Past tours have included Italy, Ireland, Hawaii, and New York. It is the desire that all students leave the choir program with a love and passion for participating in and enjoying quality music throughout their lives. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.



## Cadet Choir

**Department:** Music

**Course Number:** 8670-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

**Fee:** \$50

Cadet Choir is a vocal ensemble open to all those interested in vocal instruction. We would love to have you singing with us! Cadet Choir teaches basic techniques required for singing in a vocal ensemble including proper breathing, tone production, diction, blend, basic music theory, and sight singing. These concepts are learned through an exciting variety of music from classical styles to today's contemporary pop music. Cadet Choir will perform regularly at concerts and may also prepare music to be performed with other choral ensembles. Opportunities for student leadership exist. In addition, Cadet Choir will have the opportunity to go on an out-of-state performance tour on a rotating year basis. Past tours have included Italy, Ireland, Hawaii, and New York. It is the desire that all students leave the choir program with a love and passion for participating in and enjoying quality music throughout their lives. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Cantilena Honors

**Department:** Music

**Course Number:** 8690-01

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Bel Canto, Cadet Choir or significant musical experience. Enrollment by audition only.

**NCAA Approved:** No

**Fee:** \$50

Cantilena is an advanced soprano and alto choral ensemble selected by audition; auditions are held each spring. We would love to have you singing with us! Cantilena will focus on further refining vocal techniques as well as learning advanced sight singing, music theory, phrasing and diction in foreign languages. Literature will include an exciting variety of advanced choral repertoire and also works by contemporary musicians. Cantilena will perform regularly at concerts and may also prepare music to be performed with other choral ensembles. Additionally, students will be expected to attend sectional rehearsals outside of the school day. Awesome opportunities for student leadership exist! Members of advanced choral ensembles are encouraged to study voice privately. In addition, Cantilena will have the opportunity to go on an out-of-state performance tour on a rotating year basis. Past tours have included Italy, Ireland, Hawaii, and New York. It is the desire that all students leave the choir program with a love and passion for participating in and enjoying quality music throughout their lives. This course may be repeated.

This course is offered in a blended learning format.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Troubadours

**Department:** Music

**Course Number:** 8680-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

**Fee:** \$50

Troubadours is a beginning tenor and bass ensemble open to all those interested in vocal instruction. We would love to have you singing with us! Troubadours will learn basic techniques required for singing in a vocal ensemble including proper breathing, tone production, diction, blend, basic music theory, and sight singing. These concepts are learned through an exciting variety of music from classical styles to today's contemporary pop music. Troubadours will perform regularly at concerts and may also prepare music to be performed with other choral ensembles. Opportunities for student leadership exist. In addition, the Troubadours will have the opportunity to go on an out-of-state performance tour on a rotating year basis. Past tours have included Italy, Ireland, Hawaii, and New York. It is the desire that all students leave the choir program with a love and passion for participating in and enjoying quality music throughout their lives. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Concert Choir Honors

**Department:** Music

**Course Number:** 8700-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Bel Canto, Troubadours, Cadet Choir, Cantilena or significant musical experience. Enrollment by audition only.

**NCAA Approved:** No

**Fee:** \$50

Concert Choir is an advanced mixed choral ensemble selected by audition; auditions are held each spring. We would love to have you singing with us! Concert Choir will focus on further refining vocal techniques as well as learning advanced sight singing, music theory, phrasing and diction in foreign languages. Literature will include an exciting variety of advanced choral repertoire and also works by contemporary musicians. Concert Choir will perform regularly at concerts and may also prepare music to be performed with other choral ensembles. Additionally, students will be expected to attend sectional rehearsals outside of the school day. Awesome opportunities for student leadership exist. Students in Concert Choir may take field trips to attend musicals, operas, or other vocal music concerts. Members of advanced choral ensembles are encouraged to study voice privately. Participation in ILMEA and Solo and Ensemble Festival is also strongly encouraged. In addition, Concert Choir will have the opportunity to go on an out-of-state performance tour on a rotating year basis. Past tours have included Italy, Ireland, Hawaii, and New York. It is the desire that all students leave the choir program with a love and passion for participating in and enjoying quality music throughout their lives. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Blue Notes Honors

**Department:** Music

**Course Number:** 8710-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Previous one-year completion or concurrent enrollment in Troubadours, Cadet, Bel Canto, Cantilena, Concert Choir, AP Music Theory or have significant musical experience. Enrollment by audition/instructor approval required.

**NCAA Approved:** No

**Fee:** \$50

Blue Notes is a show choir ensemble that focuses on combining trained vocal experience with staged choreography. Blue Notes is an advanced soprano and alto choral ensemble selected by audition; auditions are held each spring. We would love to have you singing with us! Blue Notes will focus on further refining vocal techniques as well as learning advanced sight singing, music theory, and phrasing as well as a variety of dance techniques. Literature will include an exciting variety of works by contemporary musicians including Broadway show tunes and popular songs. Blue Notes will perform regularly at concerts and may also prepare music to be performed with other choral ensembles. Blue Notes members will perform frequently throughout the community and may be required to take field trips during the school day, evenings or weekends. Additionally, students may be expected to attend sectional rehearsals outside of the school day. Awesome opportunities for student leadership exist. Members of advanced choral ensembles are encouraged to study voice privately. Participation in the Solo and Ensemble Festival is also strongly encouraged. In addition, Blue Notes will have the opportunity to go on an out-of-state performance tour on a rotating basis. Past tours have included Italy, Ireland, Hawaii, Florida, and New York. It is the desire that all students leave the choir program with a love and passion for participating in and enjoying quality music throughout their lives. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## American Popular Music

**Department:** Music

**Course Number:** 8730-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This one-semester course is designed to teach students about the evolution of music in America. Students will study a variety of genres including: Blues, R&B, Rock and Roll, Motown, Heavy Metal, Disco and Hip Hop. Elements of the course have project-based assignments and contain audio and visual presentations of content. Students will develop critical listening skills which will help them to think creatively and critically about popular music. It will allow students to connect today's pop music to yesterday's musical innovators. [CLICK HERE](#) to view the course video.

## Beginning Electronic Music Composition

**Department:** Music

**Course Number:** 8740-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Do you make beats at home? Have you used Garage Band and wished it did more? Or, have you just wanted to learn how to compose or record on your computer? Beginning electronic music will teach you to use Ableton Live Suite including Ableton Push controller. You will learn how to construct a track from beginning to end. If you already have experience in Ableton or FL Studios, join us to enhance and refine your technique! [CLICK HERE](#) to view the course video.

## Advanced Electronic Music Composition

**Department:** Music

**Course Number:** 8750-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Beginning Electronic Music Composition

**NCAA Approved:** No

Once you have taken Beginning E-Music you can continue your work in Advanced. In this repeatable class, students will design their own path to create music that explores new techniques. Some examples include sampling, creating their own sounds, and increasing production value. The semester will culminate in a live performance experience. [CLICK HERE](#) to view the course video.

## Bare Voices Honors

**Department:** Music

**Course Number:** 8720-00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Previous one-year completion or concurrent enrollment in Troubadours, Cadet, Bel Canto, Cantilena, Concert Choir, AP Music Theory or have significant musical experience. Enrollment by audition/instructor approval required.

**NCAA Approved:** No

**Fee:** \$50

Bare Voices is an a cappella advanced mixed choral ensemble selected by audition; auditions are held each spring. We would love to have you singing with us! Bare Voices will focus on further refining vocal techniques as well as learning advanced sight singing, music theory, and phrasing as well as a variety of musical repertoire. Literature will include an exciting variety of works by contemporary musicians including standard tunes and popular songs. Bare Voices will also explore advanced chamber music from all time periods. Bare Voices will perform regularly at concerts and may also prepare music to be performed with other choral ensembles. Bare Voices members will perform frequently throughout the community and may be required to take field trips during the school day, evenings or weekends. Additionally, students may be expected to attend sectional rehearsals outside of the school day. Awesome opportunities for student leadership exist. Members of advanced choral ensembles are encouraged to study voice privately. In addition, Bare Voices will have the opportunity to go on an out-of-state performance tour on a rotating year basis. Past tours have included Italy, Ireland, Hawaii, and New York. It is the desire that all students leave the choir program with a love and passion for participating in and enjoying quality music throughout their lives. This course may be repeated.

**Please note:** There is a fee of \$50 for this performing music course.

[CLICK HERE](#) to view the course video.

## Guitar I

**Department:** Music

**Course Number:** 8760-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

By the end of this course, students will be able to play and perform several pop songs of various styles, play classical or "finger picking" style, and compose their own pieces. While this class is intended for students with no previous guitar experience, there are opportunities for individual growth for those who have played before! [CLICK HERE](#) to view the course video.

## Guitar II

**Department:** Music

**Course Number:** 8770-01

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** Guitar I

**NCAA Approved:** No

This guitar class is a continuation of Guitar I and is designed to expand the student's musical and technical skills in guitar performance. This course will emphasize the intermediate level of music theory, composition and improvisation. This class will also continue its study of various music styles and have opportunities to perform solos and in ensembles. This course may be repeated. This course is offered in a blended learning format. [CLICK HERE](#) to view the course video.

## Music Theory

**Department:** Music

**Course Number:** 8780–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This one–semester course is designed for students interested in increasing their knowledge of music theory, history, and musical vocabulary by discussing classical and contemporary music. Theory concepts will be taught through classical music history, current music, and musical trends. Students will explore various historical compositional styles and skills using electronic keyboards in the MIDI lab. Basic knowledge of the keyboard will be taught. Through practice, composition, and analysis, students will develop basic music theory skills.

[CLICK HERE](#) to view the course video.

## AP Music Theory

**Department:** Music

**Course Number:** 8800–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** Enrollment by teacher recommendation only

**NCAA Approved:** No

AP Music Theory is a course designed for students looking to discover how music is created and why music functions to create the sounds we hear. This class will focus on aural training, sight reading and musical analysis. In addition to reviewing the basics of music, students will explore advanced musical forms, styles, historical periods, composers and compositional techniques. Students will be preparing to take the AP Music Theory exam in May. Prior musical training is required to enroll in this course.

[CLICK HERE](#) to view the course video.





# MATHEMATICS & COMPUTER SCIENCE

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## DIVISION LEADER

**Ms. Angelika Czajkowska**

Angelika.Czajkowska@lz95.org

(847) 540-4382

## DIVISION LEADER BIO

*Angelika Czajkowska is the Mathematics and Computer Science Division Head. She began her career at Lake Zurich High School 7 years ago as a math teacher. Angelika earned her bachelor's degree in mathematics, ESL endorsement, and Spanish minor from Northern Illinois University. She continued her education by receiving a master's degree in education leadership from Concordia University Chicago. Her strongest motivation is to show students that 'real math' can take place outside of a textbook, and it can be really fun. She uses any opportunity to connect learning to the real world. On a personal level, Angelika enjoys spending time with her family, sudoku puzzles, and cooking.*

## PROGRAM DESCRIPTION

The Lake Zurich High School Mathematics Department program offers courses in pure and applied mathematics to assist students in their pursuit of intellectual, academic, and career goals. The aim of the department is to provide the student with a sound mathematical foundation.

- All students must take three years of mathematics, one of which must be Algebra, one of which must include geometry content, and one of which may be an Advanced Placement computer science course, in order to graduate from Lake Zurich High School. College-bound students are strongly recommended to take four full years of Mathematics.
- LZHS Mathematics blended learning course offerings (as defined in the course descriptions below) follow a 3–2 model:
  - Three days of face-to-face instruction
  - Two days of flexible/virtual instruction
  - The teacher may require a student to attend all five days if a greater need for face-to-face instruction arises
  - Students may self-select participation in 4–5 days of face-to-face instruction

## RECOMMENDATION FOR PLACEMENT

- LZHS course sequences do not mandate that a student must stay on a given program or pathway throughout one's high school career. With demonstrated effective effort, motivation, and improved performance, a student may engage in a more rigorous course load or change course according to post-secondary goals during the course selection process.
- Recommendation for placement in any core course is based on performance and demonstration of effective effort. Each teacher monitors these two aspects and considers them in making a recommendation of placement for the student for the following year.
- Students, parents and guardians are welcome to contact the teacher or Mathematics & Computer Science Division Head if concern about the recommendation arises.

# MATHEMATICS COURSE OFFERINGS

## Algebra I Support

**Department:** Mathematics

**Course Number:** 2100–00

**Open to Grade Level(s):** 9

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** [See Freshman](#)

[Placement Guidelines](#)

**Corequisite enrollment in Algebra I**

**NCAA Approved:** No

This is an intervention course designed for the student who would benefit from additional support to build a solid foundation for their current Algebra I course. Problem-solving skills and mathematical discussions will be emphasized and instructional strategies include pre-teaching, re-teaching, small group work and individual differentiation. During the school day, students attend this course prior to their Algebra I course. Grades are pass/fail only. This course is a full-year Math elective and does not count towards the Math graduation requirement. [CLICK HERE](#) to view the course video.

## Algebra I

**Department:** Mathematics

**Course Number:** 2110–00

**Open to Grade Level(s):** 9

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** [See Freshman](#)

[Placement Guidelines](#)

**NCAA Approved:** Yes

Topics in this course include: solving equations and inequalities, graphing linear, exponential, and quadratic functions, systems of equations, polynomial operations, and solving quadratics. Applications and word problems are studied throughout the course. This course prepares students for Geometry. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84).  
*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*  
[CLICK HERE](#) to view the course video.

## Algebra I Honors

**Department:** Mathematics

**Course Number:** 2120–00

**Open to Grade Level(s):** 9

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** [See Freshman](#)

[Placement Guidelines](#)

**NCAA Approved:** Yes

The Algebra I Honors course is designed to provide students with an in-depth level of instruction, an accelerated pace and a cooperative learning environment. The course guides students in the development of critical thinking skills and algebraic problem solving skills which provide the foundation for real world problem-solving. It is targeted to highly motivated students who have previously had some algebra. Algebra I Honors is a course that introduces basic algebraic skills and provides the foundation for all subsequent math courses. Topics include, but are not limited to, properties of real numbers, relations, linear, quadratic, and exponential functions, graphing equations and inequalities, systems of equations, radicals, factoring polynomials, rational equations, statistics, data analysis, and mathematical modeling. This course prepares students for Honors Geometry. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84).  
[CLICK HERE](#) to view the course video.

## Geometry Support

**Department:** Mathematics

**Course Number:** 2200–00

**Open to Grade Level(s):** 10

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Algebra I

**Corequisite enrollment in Geometry**

**NCAA Approved:** No

This is an intervention course designed for the student who would benefit from additional support to build a solid foundation for their current Geometry course. Problem-solving skills and mathematical discussions will be emphasized and instructional strategies include pre-teaching, re-teaching, small group work and individual differentiation. During the school day, students attend this course prior to their Geometry course. Grades are pass/fail only. This course is a full-year Math elective and does not count towards the Math graduation requirement. [CLICK HERE](#) to view the course video.

## Geometry

**Department:** Mathematics

**Course Number:** 2210–00

**Open to Grade Level(s):** 10

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Algebra I

**NCAA Approved:** Yes

This course covers Geometry topics with an inductive and deductive approach. Topics in this course include: constructions, transformations, analytic proofs, angle relationships, various geometric figures and their properties, area and volume, congruence and similarities and probability. Applications and word problems are studied throughout the course. This course prepares students for Algebra II. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84).

This course is also offered in a blended learning format (2210–01).

*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*

[CLICK HERE](#) to view the course video.

## Geometry Honors

**Department:** Mathematics

**Course Number:** 2220–00

**Open to Grade Level(s):** 9, 10

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** Rising Freshmen: [See](#)

[Freshman Placement Guidelines](#)

**NCAA Approved:** Yes

This course offers an enhanced setting to develop mathematical reasoning, critical thinking skills and problem solving techniques to investigate and explore Geometry. This course develops skills in the area of constructions, transformations, sophisticated proof techniques, congruence, similarity, right triangles, Pythagorean applications, trigonometry and trigonometry applications that include Law of Sines and Law of Cosines, parallel lines, perpendicularity, polygons, area, volume, circles, parabolas, coordinate geometry, and probability including conditional probability. Algebra is used frequently as a tool to reinforce those skills which will be used in subsequent math courses. This course prepares students for Algebra II Honors. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84). Algebra I teachers may recommend a rising sophomore student for this course who has demonstrated A-level mastery and is ready to be challenged in an honors math course.  
[CLICK HERE](#) to view the course video.

## Algebra II Part A

**Department:** Mathematics

**Course Number:** 2300–00

**Open to Grade Level(s):** 11

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Geometry

**NCAA Approved:** Yes

This course builds upon the concepts learned in Algebra I and is the first course in a two-year option for completing the traditional Algebra II course. The understanding and use of essential algebraic skills are reinforced. Topics in this course include: families of functions, sequences and series, exponential and logarithmic modeling, and quadratic functions. This course prepares students for Algebra II Part B with Trigonometry. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84).  
*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*  
[CLICK HERE](#) to view the course video.

## Algebra II Part B with Trigonometry

Department: Mathematics

Course Number: 2310-00

Open to Grade Level(s): 12

Credit Amount: 1

Credit Type: CP

Prerequisite: Algebra II Part A

NCAA Approved: Yes

This course is the second course in a two-year option for completing the traditional Algebra II course. Topics in this course include: polynomial functions, radical functions, rational functions, and trigonometry. A graphing calculator is required (any version of Texas Instruments TI-83 or TI-84).

[CLICK HERE](#) to view the course video.

## Algebra II

Department: Mathematics

Course Number: 2330-00

Open to Grade Level(s): 10, 11

Credit Amount: 1

Credit Type: CP

Prerequisite: Geometry

NCAA Approved: Yes

This course builds on the concepts learned in Algebra I and Geometry. The understanding and use of essential algebraic skills are reinforced. Topics in this course include: families of functions, sequences and series, exponential and logarithmic modeling, quadratics, polynomial functions, rational and radical functions, trigonometry and statistics. This course prepares students for Precalculus. A graphing calculator is required (any version of Texas Instruments TI-83 or TI-84).

*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*

[CLICK HERE](#) to view the course video.

## Algebra II Honors

Department: Mathematics

Course Number: 2340-00

Open to Grade Level(s): 9, 10, 11

Credit Amount: 1

Credit Type: Honors

Prerequisite: Rising Freshmen: [See Freshman Placement Guidelines](#)

Rising Sophomores & Juniors: Geometry Honors

NCAA Approved: Yes

This course requires a thorough understanding of Algebra I. Topics are studied in much greater depth and intensity using a variety of mathematical methods.

These topics include: families of functions, sequences and series, exponential, logarithmic, quadratics, polynomial, rational and radical functions, trigonometry and statistics. Further development of critical thinking skills is stressed. This course prepares students for Precalculus Honors. A graphing calculator is required (any version of Texas Instruments TI-83 or TI-84).

Students who find success in this course typically earn a B or higher in both Algebra I and Geometry Honors, and can apply prerequisite Algebra skills consistently. Students in this course should demonstrate a strong understanding of the eight Standards for Mathematical Practice.

[CLICK HERE](#) to view the course video.

## Dual Credit Quantitative Literacy

Department: Mathematics

Course Number: 2700-00

Open to Grade Level(s): 11, 12

Credit Amount: 1

Credit Type: Honors, Dual Credit

College/University Partnership: College of Lake County (MTH141)

Prerequisite: Two years of algebra (C or better) and [CLC Basic Algebra Readiness](#)

NCAA Approved: Yes

Fee: \$50

This course is recommended for students pursuing a non-STEM pathway yet are interested in a fourth-year math course and do not need precalculus and calculus.

This course develops conceptual understanding in several areas, building upon concepts learned in previous math courses, including: representing and analyzing data through such statistical measures as central tendency, dispersion, normal distribution, and correlation and regression; using logical statements and arguments in a real-world context; estimating, approximating and judging the reasonableness of answers; graphing and using polynomial functions and systems of equations in the interpretation and solution of problems; and selecting and using appropriate approaches and tools in formulating and solving real-world problems. A graphing calculator is required (any version of Texas Instruments TI-83 or TI-84).

Please note: Semester grade calculations for the post-secondary institution may differ from LZHS.

Additionally, the fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## Precalculus

Department: Mathematics

Course Number: 2400-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 1

Credit Type: CP

Prerequisite: Algebra II

NCAA Approved: Yes

This course builds on the concepts learned in previous algebra courses, and requires a thorough understanding of Algebra II. Topics in this course include: trigonometry, polynomial functions, exponential and logarithmic functions, rational functions and an introduction to limits and derivatives. This course prepares students for college level mathematics, including AP Calculus AB or Calculus. A graphing calculator is required (any version of Texas Instruments TI-83 or TI-84).

This course is also offered in a blended learning format (2400-01).

[CLICK HERE](#) to view the course video.

## Precalculus Honors

Department: Mathematics

Course Number: 2410-00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 1

Credit Type: Honors

Prerequisite: Algebra II Honors

NCAA Approved: Yes

This course builds on the concepts learned in previous algebra courses, and requires a thorough understanding of Algebra II Honors. This course will include matrices, trigonometry, conics, polar coordinates, exponential and logarithmic functions, rates of change, derivatives and limits. This course is designed as an accelerated course that will give the student thorough preparation for college and/or high school AP Calculus BC. A graphing calculator is required (any version of Texas Instruments TI-83 or TI-84). Students who find success in this course typically earn a B or higher in Algebra II Honors, and can apply prerequisite Algebra skills consistently. Students in this course should demonstrate a strong understanding of the eight Standards for Mathematical Practice.

This course is also offered in a blended learning format (2410-01).

[CLICK HERE](#) to view the course video.

## AP Precalculus

Department: Mathematics

Course Number: 2800–00

Open to Grade Level(s): 11, 12

Credit Amount: 1

Credit Type: AP

Prerequisite: Algebra II Honors

NCAA Approved: Yes

In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. Modeling is also a key feature of the course. Students select, construct, and validate function models using transformations of functions and regressions. Students learn to select mathematical models–based characteristics of a bivariate data set; characteristics of covarying quantities and their relative rates of change; or a set of characteristics such as zeros, asymptotes, and extrema. Students also identify, interpret, and apply information from a function model for a given context or data set, subject to assumptions and limitations related to the context. This course is designed as an accelerated course that will give the student thorough preparation for college and/or high school AP Calculus BC. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84). Students who find success in this course typically earn a B or higher in Algebra II Honors, and can apply prerequisite Algebra skills consistently. Students in this course should demonstrate a strong understanding of the eight Standards for Mathematical Practice. [CLICK HERE](#) to view the course video.

## Calculus

Department: Mathematics

Course Number: 2500–00

Open to Grade Level(s): 11, 12

Credit Amount: 1

Credit Type: CP

Prerequisite: Precalculus

NCAA Approved: Yes

The study of calculus is not limited to those preparing for careers in mathematics and sciences. This course emphasizes the skills of limits, differentiation, integration, graphing and their applications and is equivalent to a one–semester college calculus course. Although students may elect to take the AP exam at the end of this course, preparation for the AP exam is not the focus nor a part of this course. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84). This course is also offered in a blended learning format (2500–01). [CLICK HERE](#) to view the course video.

## Transitional Math: Quantitative Literacy and Statistics

Department: Mathematics

Course Number: 2510–00

Open to Grade Level(s): 12

Credit Amount: 1

Credit Type: CP

College/University Partnership: College of Lake County ([for more information, click here](#))

Prerequisite: Completion of math graduation requirements

NCAA Approved: No

Transitional Math: Quantitative Literacy and Statistics is designed for students whose career goals do not involve occupations relating to College Algebra or Vocational Mathematics, as well as students who may not yet have selected a career path. Illinois Community Colleges and select universities guarantee placement in credit–bearing general education mathematics courses to students who successfully complete this course. Topics of the course include numeracy, algebra, and functions and modeling. Additionally, a topic will be chosen from: systems of equations and inequalities, probability and statistics, and proportional reasoning. This course provides foundational understanding in general statistics, data analysis, quantitative literacy, and problem solving. This course does not meet graduation requirements and it is not NCAA Clearinghouse Approved. Please note: Semester grade calculations for the post–secondary institution may differ from LZHS. [CLICK HERE](#) to view the course video.

## AP Statistics

Department: Mathematics

Course Number: 2810–00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 1

Credit Type: AP

Prerequisite: Algebra II

NCAA Approved: Yes

The purpose of this Advanced Placement course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will explore the course themes using a variety of technologies– graphing calculator, spreadsheets and other software designed for statistical applications. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns. 2. Sampling and Experimentation: Planning and conducting a study. 3. Anticipating Patterns: Exploring random phenomena using probability and simulation. 4. Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and the AP exam may receive university credit, advanced placement, or both for a one–semester introductory college statistics course. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84). [CLICK HERE](#) to view the course video.

## AP Calculus AB

Department: Mathematics

Course Number: 2820–00

Open to Grade Level(s): 11, 12

Credit Amount: 1

Credit Type: AP

Prerequisite: B or higher in Precalculus

NCAA Approved: Yes

AP Calculus AB is designed to prepare the student to take the Calculus AB Advanced Placement Examination (offered each May) in an attempt to receive advanced placement and/or credit in the freshman year of college. This course is equivalent to a one–semester college calculus course. Topics explored include the four fundamental concepts of calculus: limits, derivatives, definite integrals and indefinite integrals. All topics are presented algebraically, graphically and verbally, aligning with College Board standards. Topics include: derivatives and integrals of logarithmic, exponential, transcendental and inverse functions, area between curves, volumes of solids, L'Hopital's Rule, differential equations and slope fields. A graphing calculator is required (any version of Texas Instruments TI–83 or TI–84). Students who find success in this course typically earn a grade of B or higher in Precalculus and have demonstrated a strong understanding of the eight Standards for Mathematical Practice. Students taking AP Calculus AB are typically college bound juniors or seniors who have just completed a Precalculus class. Generally, students who have successfully completed Precalculus will sign up for Calculus AB; these students must be motivated, have strong Algebra I and II skills, thoroughly complete homework daily, and have time in their schedule to seek additional help, if needed. Students who completed Precalculus and do not want to take the AP exam should enroll in Calculus (same concepts as AP Calculus AB but does not prepare students for the AP Exam in May). [CLICK HERE](#) to view the course video.



## AP Calculus BC

**Department:** Mathematics

**Course Number:** 2830-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** B or higher in  
Precalculus Honors

**NCAA Approved:** Yes

AP Calculus BC is designed to prepare the student to take the Calculus BC Advanced Placement Examination (offered each May) in an attempt to receive advanced placement and/or credit in the freshman year of college. Students completing this course have the equivalent of two semesters of college calculus. Topics explored include the four fundamental concepts of calculus: limits, derivatives, definite integrals and indefinite integrals. All topics are presented algebraically, graphically and verbally, aligning with College Board standards. Topics include: derivatives and integrals of logarithmic, exponential, transcendental and inverse functions, area between curves, volumes of solids, L'Hopital's Rule, differential equations, slope fields, special integration methods and their applications, polynomial approximation, series, parametric equations, polar and vector functions. A graphing calculator is required (any version of Texas Instruments TI-83 or TI-84). Students who find success in this course typically earn a grade of B or higher in Precalculus Honors, and have demonstrated a strong understanding of the eight Standards of Mathematical Practice.  
[CLICK HERE](#) to view the course video.

## Multivariable Calculus

**Department:** Mathematics

**Course Number:** 2710-00

**Open to Grade Level(s):** 12

**Credit Amount:** 1

**Credit Type:** AP

**College/University Partnership:**  
University of Illinois (Math 241)

**Prerequisite:** 4 or 5 on AP Calculus  
BC Exam

**NCAA Approved:** Yes

**Fee:** \$300

This course is equivalent to a third course in calculus and analytic geometry including: vector analysis, Euclidean space, partial differentiation, multiple integrals, line and surface integrals, and the integral theorems of vector calculus. Students that successfully complete this course, including passing the mandatory exams, will receive 1 credit from the high school and 4 credits from the University of Illinois. The course fee is \$300.00.  
Please note: Semester grade calculations for the post-secondary institution may differ from LZHS. The student's LZHS grade earned in this course will be weighted based on the AP grading scale. For additional information regarding dual credit and credit transfer, please refer to page 9.  
[CLICK HERE](#) to view the course video.

# COMPUTER SCIENCE COURSE OFFERINGS

## MobileMakers Honors

**Department:** Computer Science

**Course Number:** 2600–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** None

**ISBE College & Career Pathway:**  
Information Technology

**NCAA Approved:** Yes

**Fee:** \$60

MobileMakers provides students with authentic coding experience by building apps for Apple mobile devices, using the language and tools of professionals (Swift and Xcode), while working in an environment focused on problem solving, collaboration, and communication. Students will leave the class with a portfolio of 8 apps and a collection of highly valuable skills. This course prepares students for PLTW: AP Computer Science A. This is the orientation course for the Information Technology Pathway. The course fee is \$60. [CLICK HERE](#) to view the course video.

## PLTW: Computer Science Essentials

**Department:** Computer Science

**Course Number:** 2610–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors

**Prerequisite:** None

**ISBE College & Career Pathway:**  
Information Technology

**NCAA Approved:** Yes

Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to PLTW: AP Computer Science Principles and/or PLTW AP Computer Science A. This course is designed for students with no prior programming experience. This course is the orientation course for the Information Technology Pathway. [CLICK HERE](#) to view the course video.

## PLTW: AP Computer Science Principles

**Department:** Computer Science

**Course Number:** 2860–00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** Algebra I

**ISBE College & Career Pathway:**  
Information Technology

**NCAA Approved:** Yes

AP Computer Science Principles is designed to be an introduction to computer science at an AP level. Using Python® as a primary tool, students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges like app development and simulation. The course focuses on concepts and computational thinking practices central to computing and STEM careers. Major areas of study are the Internet, digital data, algorithms and programming, big data and privacy, and building apps. This course comprises research, communication, collaboration, presentation, and coding. AP credit is awarded based on one performance task (40%) and a multiple choice test (60%) given during the AP exam week. Upon completion of the course, students will have a solid foundation in both programming and computer science. This course prepares students for PLTW: AP Computer Science A. This course is endorsed by the College Board, giving students the opportunity to take the AP Computer Science Principles exam for college credit. This course is designed for students with no prior programming experience. This course is the skill development course for the Information Technology Pathway. [CLICK HERE](#) to view the course video.

## PLTW: AP Computer Science A

**Department:** Computer Science

**Course Number:** 2870–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** For 2022–2023, one of the following: Computer Programming Honors, MobileMakers Honors, PLTW: AP Computer Science Principles

**ISBE College & Career Pathway:**  
Information Technology

**NCAA Approved:** Yes

Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. In accordance with the AP College Board course standards, the course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. Coding in Java is an extensive part of this course. Students with prior programming experience in data types, decision, iteration, and arrays should consult with the Division Head for approval to waive prerequisites. This course is endorsed by the College Board, giving students the opportunity to take the AP Computer Science A exam for college credit. This course is the capstone course for the Information Technology Pathway. [CLICK HERE](#) to view the course video.

## Advanced Topics in Computer Science

**Department:** Computer Science

**Course Number:** 2620–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** AP

**Prerequisite:** PLTW: AP Computer Science A

**NCAA Approved:** Yes

**Fee:** Fees may apply

Advanced Topics in Computer Science is designed for the student who wants to pursue the further study of advanced computer science topics. Students will have a choice to personalize their learning by choosing from topics such as: the implementation of common data structures such as lists, stacks, queues, trees, and graphs, including linked structures, hash tables, and heaps, as well as elementary methods of complexity analysis applied to algorithms that manipulate dynamic and static data structures. In addition, the students will work directly with the instructor to design an approved individualized course of study of the student's choosing. Students who take this course must be self-motivated to be able to consistently work independently on a significantly challenging topic that is of interest to them. With instructor approval, students may complete the course more than once. The student's grade earned in this course will be based on the AP grading scale. Based on each student's personalized plan of study, course fees may apply. [CLICK HERE](#) to view the course video.



# PHYSICAL DEVELOPMENT & WELLNESS

PHYSICAL EDUCATION  
HEALTH & WELLNESS  
DRIVER EDUCATION

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## DIVISION LEADER

**Mr. Todd Gregory**

Todd.Gregory@lz95.org  
(847) 540-4189

## DIVISION LEADER BIO

*Todd Gregory has been a member of the Lake Zurich High School community since 1990. He has served as an Athletic Trainer, Physical Education teacher, and for the last 21 years, as the Division Head for Physical Development and Wellness. Todd received a bachelor's degree in Athletic Training from North Central College, a master's degree in Athletic Training from Indiana State University, a teaching degree from Elmhurst College, and an administrative degree from National-Louis University.*

*In addition to his administrative responsibilities, Todd has served on numerous building and district level committees, has taught various Physical Education courses, and created the Introduction to Sports Medicine course, which he has taught for 16 years. He has served as a past president of the Suburban Physical Education Department Chairs Association, and has continued to work part-time in the athletic training room during the fall sports season.*

## PHYSICAL EDUCATION PROGRAM DESCRIPTION

The Lake Zurich Physical Education Department is committed to helping students improve their level of health and fitness by developing life-long skills through a variety of challenging physical activities.

- All Lake Zurich High School students must be enrolled in daily Physical Education, and receive a passing grade for each of those semesters, with one of the semesters being Health Education. A student may also take Physical Education as an elective in addition to their regularly scheduled PE course.
- Junior and Senior students enrolled in Physical Education may select from Lifetime Sports, Personal Fitness, Fitness for Life, Strength Training, Adventure Education, Officiating, and Applied Health and Wellness. Students will register for two PE courses with their counselor during the spring registration period.
- Students may be exempt if they have junior or senior status during the season(s) they are actively participating in an IHSA sanctioned sport. These students will have the choice of taking either Weight Training or Personal Fitness during the course selection process.
  - Students must remain in the building during their exemption period; exempt students will need to scan into an approved resource space while on an athletic exemption. Failure to remain a member in good standing on a team will result in being reinstated into their PE course.
- PE Exemptions may also apply in the following circumstances:
  - To enroll in academic classes which are required for admission to an institution of higher learning, providing that failure to take such classes will result in the pupil being denied admission to the institution of his or her choice (Seniors only).
  - To enroll in academic classes which are required for graduation from high school, provided that failure to take such classes will result in the pupil being unable to graduate (Seniors only).
  - A request is made to be exempt in a marching band program for credit during the marching band season (freshmen through seniors). Exempted students will be placed in study hall.
- LZHS Health & Wellness blended learning courses (as outlined in the course descriptions below) follow a 3-2 model:
  - Three days of face-to-face instruction
  - Two days of flexible/virtual instruction
  - The teacher may require a student to attend all five days if a greater need for face-to-face instruction arises
  - Students may self-select participation in 4-5 days of face-to-face instruction

# COURSE OFFERINGS

## Freshman Physical Education

**Department:** Physical Education  
**Course Number:** 6100-00 (fall), 6105-00 (spring)  
**Open to Grade Level(s):** 9  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** No

This course is designed to provide opportunities for physical, social, and cognitive developmental growth in the areas of physical education. To promote physical competence and cognitive understanding, freshmen students will be exposed to a variety of activities with an emphasis on fundamental skill development, mobility, and movement concepts. Students will learn the importance of living a healthy lifestyle through analyzing their personal fitness levels, developing personal fitness plans, and participating in various activities involving health-related fitness components. Development in social and emotional learning will provide students with life skills such as self-management, self-concept, and responsible decision making.  
[CLICK HERE](#) to view the course video.

## Sophomore Physical Education

**Department:** Physical Education  
**Course Number:** 6200-00 (fall), 6205-00 (spring)  
**Open to Grade Level(s):** 10  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** No

Sophomore Physical Education is a continuation of the Freshman Physical Education program that incorporates health and skill enhancing physical fitness activities. This semester-long course furthers the development of individual and team performances and also covers health and social-emotional related concepts.  
[CLICK HERE](#) to view the course video.

## Health Education

**Department:** Health & Wellness  
**Course Number:** 6210-00 (fall), 6215-00 (spring)  
**Open to Grade Level(s):** 10  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** No

Health Education provides students practical knowledge that will help keep them physically fit and mentally healthy throughout their lives. This graduation requirement includes the following units of study: traits of a healthy lifestyle; self-esteem; mental health; managing stress; preventing violence and abuse; nutrition; eating behaviors; alcohol; tobacco; illegal drugs; diseases and disorders; reproductive health; first aid and safety. The course content is designed to meet the needs of today's students as they strive to live high quality lives.  
[CLICK HERE](#) to view the course video.

## Driver Education

**Department:** Driver Education  
**Course Number:** 6220-00 (fall), 6225-00 (spring)  
**Open to Grade Level(s):** 9, 10, 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** Must be 15 prior to beginning of class. Must have passed 8 credit hours in the previous two semesters.  
**NCAA Approved:** No  
**Fee:** \$350 - Behind the Wheel

Driver Education is a comprehensive, semester-long class. During this class, thirty clock hours of classroom instruction, six clock hours of behind the wheel instruction and fifty hours of parental supervised driving are required by state law. Sophomore students will have the first opportunity to register for this course, with freshman who are fifteen before the course begins being able to fill out the remaining seats. This course takes place during the regular school day. A \$350 fee will be charged for the Behind the Wheel portion of this class. In order to be eligible for enrollment, students must have received a passing grade in at least eight courses during the previous two semesters.  
[CLICK HERE](#) to view the course video.

## Lifetime Sports I & II

**Department:** Physical Education  
**Course Number:** 6300-00 (fall), 6305-00 (spring)  
**Open to Grade Level(s):** 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** No

This course will combine various team and individual sports. Three days per week the class will be involved in fundamental development and game play. Two days per week the class will be involved in various wellness activities. Sporting activities may include: archery, tennis, badminton, eclipseball, basketball, football, soccer, pickleball, golf, ultimate frisbee, floor hockey, and softball.  
[CLICK HERE](#) to view the course video.

## Personal Fitness I & II

**Department:** Physical Education  
**Course Number:** 6320-00 (fall), 6325-00 (spring)  
**Open to Grade Level(s):** 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** No

The purpose of this course is to create and obtain individual fitness goals by tracking progress through a variety of activities which include: plyometrics, cardio, body weight lifts, training strategies, classroom instruction into fitness concepts and goal setting, agility, balance and coordination, core strength, and high intensity weight training/ high intensity interval training.  
[CLICK HERE](#) to view the course video.

## Fitness for Life I & II

**Department:** Physical Education  
**Course Number:** 6340-00 (fall), 6345-00 (spring)  
**Open to Grade Level(s):** 11, 12  
**Credit Amount:** 0.5  
**Credit Type:** CP  
**Prerequisite:** None  
**NCAA Approved:** No

Are you someone who is interested in learning about group fitness and strength training? If so, this course is for you! This course is intended for juniors and seniors that are interested in improving their overall fitness and health. This course consists of a variety of activities with an emphasis on fundamental skill development, mobility, and movement concepts. Students will learn the importance of living a healthy lifestyle through analyzing their personal fitness levels, learning about nutrition and development in social and emotional learning which will provide students with life skills such as self-management, self-concept, and responsible decision making. Physical workouts may include but are not limited to: yoga, barre, circuit interval training, aerobic classes, and strength training. Physical fitness and knowledge assessments will be implemented in this course as well as a final project that is related to physical fitness and health. P.E. waivers are not permitted throughout the duration of this course.  
[CLICK HERE](#) to view the course video.

## Weight Training I & II

**Department:** Physical Education

**Course Number:** 6360-00 (fall), 6365-00 (spring)

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

This course is designed to help students develop an understanding of the basic principles of strength and resistance training. Students are guided through exercise programs that will provide a total body workout. Students that are involved in extracurricular sports may choose a program that is specifically designed for their sport. The main goals of the course are for students to increase lean muscle mass, decrease body fat, learn and implement proper technique and safety procedures. A secondary goal of the course is to improve the students' flexibility. A tertiary goal of the course is to improve cardiovascular endurance. The instructor will introduce the concepts necessary to create a resistance training program so that learners may develop the knowledge to construct their own regimen. At the conclusion of the course, the students will have acquired the knowledge necessary to continue resistance training for a lifetime.

[CLICK HERE](#) to view the course video.

## Sports Officiating

**Department:** Physical Education

**Course Number:** 6380-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Students will learn and apply skills and techniques of officiating various sports. An end result of the course will be students becoming "patched IHSA officials" and will be able to work at IHSA events. The IHSA will waive the certification fees for high school students.

[CLICK HERE](#) to view the course video.

## Adventure Education

**Department:** Physical Education

**Course Number:** 6390-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Adventure Education has an experiential learning environment where students participate in a variety of traditional and non-traditional activities. Through these activities, students will have the opportunity to build a sense of personal confidence, increase mutual support within a group, and demonstrate positive communication with peers and adults. The overall goal of experiential learning is to provide a safe, community building environment where students can develop risk-taking, leadership, communication, problem-solving, and active listening skills in a physically challenging setting. Activities experienced in this course include, but are not limited to, initiatives, teambuilding, problem-solving, and challenge courses.

[CLICK HERE](#) to view the course video.

## Applied Health and Wellness

**Department:** Physical Education

**Course Number:** 6400-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Want a different class to fulfill your state P.E. requirement? Applied Health & Wellness is the class for you. This class provides you with real, usable skills and credentials in an allied medical health field. There is some classroom application along with fitness/gym days to apply the skills learned. Concepts/skills learned include: personal training, CPR (with the option to become certified), career exploration, and more. This is a great class for those interested in a future in the health and medical field. This is a non-repeatable course. P.E. waivers are not permitted throughout the duration of this course.

[CLICK HERE](#) to view the course video.

## Physical Education Leadership Program

**Department:** Physical Education

**Course Number:** 6420-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Application process and admission to program

**NCAA Approved:** No

The Physical Education Leadership Program is an elective two-year program designed to teach and implement Strategic Core Values and Objectives as a means to promote positive student achievement.

Through a comprehensive curriculum of team building and cooperative based learning strategies, students will have an opportunity to explore leadership roles, build positive, respectful relationships with peers and teachers, exemplify characteristics of an outstanding citizen, demonstrate skills, acquire knowledge related to the field of physical education, and stimulate an interest in the teaching profession. The overall goal of the Physical Education Leadership Program is to provide opportunities for leadership development in our students within a physical education environment.

The Physical Education Leadership Program is designed as a two-step process: one year of instruction and acquisition of knowledge, followed by one year of leader internship. During the first year of training, juniors gather knowledge, theory, and application strategies used in a physical education setting. During the year of leader internship, while assisting the physical education teacher, seniors will demonstrate application through peer teaching, role modeling, and co-facilitating.

Admittance into the Physical Education Leadership Program will be based on an application and evaluation format. By the end of the 1st semester of their sophomore year, interested candidates must complete the leader application form and provide two Lake Zurich High School teacher/sponsor recommendations. At least one leader recommendation form must come from one of their former physical education teachers. The other leader recommendation form should come from any Lake Zurich High School teacher, counselor, coach, or sponsor that can provide insight into the candidate's leadership potential. Students accepted into the leadership program will receive physical education credit. P.E. waivers are not permitted throughout the duration of this course.

[CLICK HERE](#) to view the course video.

## Integrated Physical Education

**Department:** Physical Education

**Course Number:** 6440-00

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** Instructor approval and/or application.

**NCAA Approved:** No

Integrated Physical Education focuses on enhancing students overall physical fitness levels as well as their motor skills, self-confidence, self-image, friendships, and social skills. Students will participate in a variety of activities that will help build these skills. Activities are modified in order to include students of all abilities. Activities include basketball, badminton, football, soccer, and volleyball. Integrated Physical Education also encourages students to participate in Special Olympics Illinois. Student leaders will mentor students with differing abilities and assist them where needed in class, and will help create a positive learning environment. Leaders will be required to dress daily and participate fully in every activity. Leaders are required to submit an application to be accepted into the program.

[CLICK HERE](#) to view the course video.

## **Introduction to Sports Medicine**

**Department:** Health & Wellness

**Course Number:** 6450-00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

If you are interested in going into a medical field as a career, consider Introduction to Sports Medicine. This course is designed for students to learn the evaluation, prevention, immediate care, and rehabilitation of athletic injuries. Lecture, discussion, practical lab assignments and observation hours will constitute the major components of the course. This course does not meet or replace the PE graduation requirement.

This course is also offered in a blended format (6450-01).

[CLICK HERE](#) to view the course video.



# SCIENCE

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## DIVISION LEADER

**Ms. McKenna Serowka**  
McKenna.Serowka@lz95.org  
(847) 540-4618

## DIVISION LEADER BIO

*McKenna Serowka is the Science Division Head at Lake Zurich High School. In addition to overseeing the Science Division, she sponsors LZHS's Women in STEAM Club, the EDvironment Club, and Ski Club. Prior to coming to LZHS, she was the Assistant Principal at Middle School North for five years. She has experience teaching a variety of middle school and high school science and STEAM courses, and is also certified in Gifted and ESL education. As a child, she attended District 95 schools and is excited to serve her hometown as an administrator in District 95.*

## SCIENCE VISION

We empower every learner to achieve personal excellence in the Science Division when they:

- Utilize inquiry based methods, critical thinking, and problem solving skills
- Are self-directed and take charge of their own learning
- Engage in hands on learning, analyze data, and research current science topics
- Are provided with feedback to learn from mistakes and grow continuously

We believe best practice in Science Education includes:

- Hands-on learning
- Inquiry based methods
- Questioning
- Student driven investigations
- Real life experiences
- Collaboration
- Questioning
- Problem Solving
- Discussions
- Analyzing evidence/data
- Making claims and supporting them with evidence and reasoning
- Persevering through failure

We believe best practice in Science Education is occurring when students are:

- Actively participating and engaged
- Discussing
- Collaborating
- Asking and answering questions
- Engaging in self-assessment
- Driving their own learning
- Making predictions, testing ideas, and analyzing results

## SCIENCE PROGRAM DESCRIPTION

Every student is required to take two full years of Science to graduate from Lake Zurich High School. This requirement consists of one year of a life science and one year of a physical science. In addition, one of these science courses must be classified as a Lab Science. College-bound students are strongly recommended to take three or four full years of science classes including a Physics course. Students who aspire to study in science-related fields are strongly advised to take four full years of Science.

- Students wishing to enroll in a second science should consider the following options: Anatomy and Physiology, Earth Science, Environmental Science, Astronomy, Biology II, Genetics and Society or any appropriate AP Science for which the student has met the prerequisites.
- The Science Department at Lake Zurich High School recommends the following course sequence for those students who are planning an emphasis in the sciences in college or have a strong aptitude in science. Freshmen: Biology Honors, Sophomores: Physical Science Honors or Chemistry Honors, Juniors: Chemistry Honors or AP Physics I, Seniors: AP Physics I, AP Biology, AP Chemistry, or AP Physics C
- LZHS Science blended learning course offerings (as defined in the course descriptions below) follow a 3-2 model:
  - Three days of face-to-face instruction
  - Two days of flexible/virtual instruction
  - The teacher may require a student to attend all five days if a greater need for face-to-face instruction arises
  - Students may self-select participation in 4-5 days of face-to-face instruction

# RECOMMENDATION FOR PLACEMENT

- LZHS course sequences do not mandate that a student must stay on a given program or pathway throughout one's high school career. With demonstrated effective effort, motivation, and improved performance, a student may engage in a more rigorous course load or change course according to post-secondary goals during the course selection process.
- Recommendation for placement in any core course is based on performance and demonstration of effective effort. Each teacher monitors these two aspects and considers them in making a recommendation of placement for the student for the following year.
- Students, parents and guardians are welcome to contact the teacher or Science Division Head if concern about the recommendation arises.

## SCIENCE COURSE OFFERINGS

Course Number	Course Name	Credit	Number of Periods	Grade Level	Life Science	Physical Science	Lab	Dual Credit	Blended Course
3100	Biology I	1	1	9	X		X		
3110	Biology I - Honors	1	1	9	X		X		
3200	Physical Science	1	1	10-12		X	X		
3210	Physical Science - Honors	1	1	10-12		X	X		
3300	Chemistry	1	1	11-12		X	X		
3310	Chemistry - Honors	1	1	10-12		X	X		
3400	Physics	1	1	11-12		X	X		
3500	Anatomy And Physiology	1	1	10-12	X		X		
3510	Anatomy And Physiology - Honors	1	1	10-12	X		X		
3520	Astronomy	0.5	1	10-12		X			
3530	Biology II	1	1	11-12	X		X		
3540	Environmental Science	1	1	10-12	X	X	X		
3710	Dual Credit Earth Science Honors	1	1	11-12		X	X	X	
3700-1	Dual Credit Genetics and Society - Honors	0.5	1	10-12	X		X	X	X
3800	AP Biology	2	2	11-12	X		X		
3820	AP Chemistry	2	2	11-12		X	X		
3810	AP Environmental Science	1	1	10-12	X	X	X		
3830	AP Physics 1	1	1	11-12		X	X		
3840	AP Physics C	2	2	12		X	X		

### Biology I

**Department:** Science  
**Course Number:** 3100–00  
**Open to Grade Level(s):** 9  
**Credit Amount:** 1  
**Credit Type:** CP (Life Science, Lab Science)  
**Prerequisite:** [See Freshman Placement Guidelines](#)  
**NCAA Approved:** Yes

Biology I is the study of living things and is structured around four themes: Ecosystems, Structure & Function, Heredity, and Biological Evolution. Lab techniques will be used to connect Biological concepts to your life. Students will ask questions, develop and use models, plan and carry out investigations, analyze and interpret data, engage in arguments from evidence, and obtain, evaluate, and communicate information.  
*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*  
[CLICK HERE](#) to view the course video.

### Physical Science

**Department:** Science  
**Course Number:** 3200–00  
**Open to Grade Level(s):** 10, 11, 12  
**Credit Amount:** 1  
**Credit Type:** CP (Physical Science, Lab Science)  
**Prerequisite:** Biology I  
**NCAA Approved:** Yes

Physical Science is a skills-based course that uses scientific inquiry and laboratory investigations to teach the skills necessary for success in science. This course covers topics in Physical Science, including Science Skills, Chemistry, Physics, and Earth and Space Science. Science skills include proper measurement technique, significant figures, unit conversions, and graphing. The skills-based focus and content prepares students for future year-long elective Physical Science courses such as Chemistry, Earth Science, and Physics.  
*\*Special Education sections of this class are available by IEP team decision only. All special education classes follow the general education curriculum but are modified to suit students' needs.*  
[CLICK HERE](#) to view the course video.

### Biology I Honors

**Department:** Science  
**Course Number:** 3110–00  
**Open to Grade Level(s):** 9  
**Credit Amount:** 1  
**Credit Type:** Honors (Life Science, Lab Science)  
**Prerequisite:** [See Freshman Placement Guidelines](#)  
**NCAA Approved:** Yes

Biology I Honors is the study of living things and is structured around four themes: life is organized, living things have structures that determine their function, all life is unified by DNA, and living things change over time. Real world applications in this class will emphasize lab techniques and connections to your life. Students will ask questions, develop and use models, plan and carry out investigations, analyze and interpret data, engage in arguments from evidence, and obtain, evaluate, and communicate information. This course prepares students for the successive honors and AP science courses offered in the department. This fast-paced honors level course requires students to have strong reading, writing, and critical thinking skills, utilizes scientific literature, and asks students to apply information that they have learned to real world scenarios.  
[CLICK HERE](#) to view the course video.

### Physical Science Honors

**Department:** Science  
**Course Number:** 3210–00  
**Open to Grade Level(s):** 10, 11, 12  
**Credit Amount:** 1  
**Credit Type:** Honors (Physical Science, Lab Science)  
**Prerequisite:** Biology I with grade of A and teacher recommendation OR Biology Honors with a grade of C or higher  
**Concurrent enrollment in Geometry Honors or higher recommended**  
**NCAA Approved:** Yes

Physical Science Honors is a skill-based course that uses scientific inquiry and laboratory investigations to teach the skills necessary for success in science. This course covers topics in Physical Science, including Chemistry, Physics, and Earth Science. This course emphasizes science literacy through applied math as well as applied writing and research skills used in science. This is an intense course designed for highly motivated students with accelerated math, science, and reading skills.  
[CLICK HERE](#) to view the course video.



## Chemistry

**Department:** Science

**Course Number:** 3300–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** CP (Physical Science, Lab Science)

**Prerequisite:** Physical Science with a grade of C or higher  
Concurrent enrollment in Algebra II, Algebra II Part B with Trigonometry, or higher recommended

**NCAA Approved:** Yes

Chemistry is the study of properties and interactions of the physical world and matter. The students will explore chemistry through hands-on lab work. They will produce and discuss graphical representations of real world phenomena. Students will gain a conceptual understanding of atoms, particles, energy and how mathematics can be used to explain laws which govern their interactions. This course will give students a general understanding of the concepts of chemistry and skills, which will prepare them for post high school endeavors.

[CLICK HERE](#) to view the course video.

## Anatomy and Physiology Honors

**Department:** Science

**Course Number:** 3510–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors (Life Science, Lab Science)

**Prerequisite:** Biology I with a grade of A and teacher recommendation OR Biology I Honors with a grade of B or higher

**ISBE College & Career Pathway:** Health Sciences & Technology

**NCAA Approved:** Yes

Anatomy and Physiology Honors is an accelerated class in human anatomy and physiology. In addition to the curriculum for anatomy and physiology, students engage in hands-on activities, projects, real-life case studies, and dissections in a more in-depth nature. The course is recommended for students who wish to gain a better understanding of the human body or for students who are interested in any field pertaining to the professional health community. This course is the orientation course in the Health Sciences & Technology Pathway.

[CLICK HERE](#) to view the course video.

## Chemistry Honors

**Department:** Science

**Course Number:** 3310–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** Honors (Physical Science, Lab Science)

**Prerequisite:** Biology I Honors with a grade of B or higher and a teacher recommendation OR Physical Science Honors with a grade of B or higher  
Concurrent enrollment in Algebra II Honors or higher recommended

**NCAA Approved:** Yes

Chemistry Honors studies the properties and changes in the world around us. Emphasis is placed on mathematical as well as theoretical descriptions of changes. This course may serve as a precursor to AP Chemistry or to college freshman chemistry courses.

[CLICK HERE](#) to view the course video.

## Astronomy

**Department:** Science

**Course Number:** 3520–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP (Physical Science)

**Prerequisite:** One year of HS Science

**NCAA Approved:** Yes

Astronomy is an introductory course that covers the constellations, planets, stellar evolution, galaxies, our sun, the moon, life in the universe, UFOs, and cosmology. This course is recommended for those students who do not take physics, but desire to learn some fundamental concepts of physics in a course that does not require the advanced math skills of a physics course.

[CLICK HERE](#) to view the course video.

## Physics

**Department:** Science

**Course Number:** 3400–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** CP (Physical Science, Lab Science)

**Prerequisite:** Chemistry Honors with a Grade of C or higher OR Chemistry with a grade of C or higher OR Division Head Approval  
Concurrent enrollment in Algebra II or higher recommended

**NCAA Approved:** Yes

This course utilizes the nationally recognized modeling curriculum, where students engage in scientific discussions concerning observable phenomena. Students develop and modify graphical, mathematical, pictorial, and word models in order to explain physics concepts related to kinematics, forces and motion, conservation laws, static electricity, and simple circuits.

[CLICK HERE](#) to view the course video.

## Biology II

**Department:** Science

**Course Number:** 3530–00

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1

**Credit Type:** CP (Life Science, Lab Science)

**Prerequisite:** Biology I and Physical Science

**NCAA Approved:** Yes

Biology II is a course designed for the student who has an interest in life science that extends beyond Biology I. The goal of this course is to foster this interest through application of conceptual ideas to many advanced laboratory exercises to provide a thorough coverage of living things. Biology II will guide the student from the simplest unicellular organisms to those that are multicellular and more complex. By taking this course, the student will gain a true understanding and appreciation for the diversity of living organisms on Earth.

[CLICK HERE](#) to view the course video.

## Anatomy and Physiology

**Department:** Science

**Course Number:** 3500–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP (Life Science, Lab Science)

**Prerequisite:** Biology I

**ISBE College & Career Pathway:** Health Sciences & Technology

**NCAA Approved:** Yes

Anatomy and Physiology is the study of the structure and function of the human body. It emphasizes the relationship that must exist between structure and function. Students explore this phenomenon via studying various body systems through experimentation, dissection, and investigating case studies. The course is recommended for students who wish to gain a better understanding of the human body or for students who are interested in any field pertaining to the professional health community. This course is the orientation course in the Health Sciences & Technology Pathway.

[CLICK HERE](#) to view the course video.

## Environmental Science

**Department:** Science

**Course Number:** 3540–00

**Open to Grade Level(s):** 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP (Life Science, Physical Science, Lab Science)

**Prerequisite:** One year of HS Science

**NCAA Approved:** Yes

Environmental Science is a course designed to study how Earth works, how humans interact with Earth and how we can deal with environmental problems. Topics covered include ecology, energy, biodiversity, conservation, environmental quality, pollution, and other environmental concerns. Special focus is given to problem solving with respect to sustainability and how to reduce our growing environmental impact.

[CLICK HERE](#) to view the course video.

## Dual Credit Earth Science Honors

Department: Science

Course Number: 3710–00

Open to Grade Level(s): 11, 12

Credit Amount: 1

Credit Type: Honors, Dual Credit (Physical Science, Lab Science)

College/University Partnership: College of Lake County (ESC120)

Prerequisite: LZHS: Physical Science or Physical Science Honors  
CLC: [Reading & Writing Readiness](#) AND [Basic Algebra Readiness](#)

NCAA Approved: Yes

Fee: \$50

This course is designed for students who are interested in physical features related to our dynamic earth. There are four disciplines that make up the course: geology, oceanography, meteorology, and astronomy. Topics covered within these disciplines include: volcanoes, earthquakes, plate tectonics, geologic history, geomorphology, chemical and physical oceanography, changing oceans, the atmosphere and moisture, weather systems, severe storms, modern astronomy, the Moon, the solar system, and beyond the solar system. Course materials are organized to enable students to understand how different components of our dynamic earth are related to one another. Each topic includes hands-on lab exercises.

Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## AP Chemistry

Department: Science

Course Number: 3820–00

Open to Grade Level(s): 11, 12

Credit Amount: 2

Credit Type: AP (Physical Science, Lab Science)

Prerequisite: Chemistry Honors with a grade of B or higher  
Concurrent enrollment in Precalculus or higher recommended

NCAA Approved: Yes

Advanced Placement Chemistry is designed to prepare the student to take the Advanced Placement Examination for earning advanced placement status and/or credit in the freshman year of college. The Advanced Placement Chemistry course is designed to be the equivalent of a first-year college-level general chemistry course. Topics include: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. This is a double-period course that requires 25% of instructional time in which students engage in lab investigations, which includes a minimum of 16 hands-on labs, some of which are guided inquiry. It is required that students keep a lab notebook throughout the course.

[CLICK HERE](#) to view the course video.

## Dual Credit Genetics and Society Honors

Department: Science

Course Number: 3700–01

Open to Grade Level(s): 10, 11, 12

Credit Amount: 0.5

Credit Type: Honors, Dual Credit (Life Science, Lab Science)

College/University Partnership: College of Lake County (BIO149)

Prerequisite: LZHS: Biology I or Biology I Honors  
CLC: [Reading & Writing Readiness](#) AND [Basic Algebra Readiness](#)

ISBE College & Career Pathway: Health Sciences & Technology

NCAA Approved: Yes

Fee: \$50

Genetics and Society is an Honors elective science course that examines cell structure and function, the nature of the gene, cell division (mitosis vs. meiosis), Mendelian genetics, hereditary disorders, recombinant DNA technology, the genetic evidence supporting evolution, and ethical issues that arise due to our increased knowledge and technology as it relates to genetics. The class strengthens science skills including microscopy, micropipetting, DNA extraction, electrophoresis, critical thinking, developing models, planning and carrying out investigations, and engaging in arguments from evidence. Students have the opportunity to earn dual credit through College of Lake County in partnership with LZHS. The class prepares students for science coursework at the college level.

This course is the skill development course in the Health Sciences & Technology Pathway. This course is offered in a blended learning format. Please note: The fee for this course, which includes credits from the College of Lake County, is \$50. For additional information regarding dual credit and credit transfer, please refer to page 9.

[CLICK HERE](#) to view the course video.

## AP Environmental Science

Department: Science

Course Number: 3810–00

Open to Grade Level(s): 10, 11, 12

Credit Amount: 1

Credit Type: AP (Life Science, Physical Science, Lab Science)

Prerequisite: One year of HS Science

NCAA Approved: Yes

The purpose of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Themes covered include: science is a process, energy conversions underlie all ecological processes, the earth itself is one interconnected system, humans alter natural systems, environmental problems have a cultural and social context, human survival depends on developing practices that will achieve sustainable systems.

[CLICK HERE](#) to view the course video.

## AP Biology

Department: Science

Course Number: 3800–00

Open to Grade Level(s): 11, 12

Credit Amount: 2

Credit Type: AP (Life Science, Lab Science)

Prerequisite: Biology I with a grade of A and Chemistry with a grade of B or higher OR Biology I Honors and Chemistry Honors, both with a grade of B or higher  
Concurrent enrollment in Precalculus or higher recommended

ISBE College & Career Pathway: Health Sciences & Technology

NCAA Approved: Yes

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. The AP Biology course is equivalent to a two-semester college introductory biology course for biology majors. Students should have successfully completed high school courses in biology and chemistry. This is a double-period course that requires 25% of the instructional time to be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. This course is the capstone course of the Health Sciences & Technology Pathway.

[CLICK HERE](#) to view the course video.

## AP Physics I

Department: Science

Course Number: 3830–00

Open to Grade Level(s): 11, 12

Credit Amount: 1

Credit Type: AP (Physical Science, Lab Science)

Prerequisite: Chemistry Honors with a grade of B or higher or Chemistry with a grade of A or higher AND teacher recommendation or Division Head Approval  
Concurrent enrollment in Precalculus or higher recommended

NCAA Approved: Yes

Advanced Placement Physics 1 is equivalent to a first-semester college course in algebra-based physics. Topics include: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, and torque and rotational motion. Emphasis is also placed on the development of scientific skills including: modeling, mathematical routines, scientific questioning, experimental methods, data analysis, argumentation, and making connections. 25% of class time is spent on laboratory work. This course prepares students for the AP Physics 1 Exam in May.

[CLICK HERE](#) to view the course video.

## AP Physics C

Department: Science

Course Number: 3840–00

Open to Grade Level(s): 12

Credit Amount: 2

Credit Type: AP (Physical Science, Lab Science)

Prerequisite: Chemistry Honors with a grade of B or higher or Chemistry with a grade of A or higher and teacher recommendation or Division Head Approval  
Concurrent enrollment in Calculus or higher recommended

NCAA Approved: Yes

This is a double-period calculus-based course designed for students who wish to pursue a college degree in a science or engineering field. The course will prepare students to take the Advanced Placement Physics C: Electricity and Magnetism and the Advanced Placement Physics C: Mechanics exams (offered each May) for earning advanced placement status and/or credit in their freshman year of college. An in-depth study of mechanics, electricity and magnetism is the primary focus of the course.

[CLICK HERE](#) to view the course video.



# SPECIAL EDUCATION

## MISSION STATEMENT

THE MISSION OF COMMUNITY UNIT SCHOOL DISTRICT 95 IS TO EMPOWER EVERY LEARNER TO ACHIEVE PERSONAL EXCELLENCE.

## DIVISION LEADER

**Ms. Dana Fair**

Dana.Fair@lz95.org

(847) 540-4324

## DIVISION LEADER BIO

*This is Dana Fair's first year at Lake Zurich High School. In her time here, she has overseen the special education department. Prior to joining the LZHS administration, Dana was a lead teacher/case manager for four years at a private therapeutic day school. She was a special education teacher for eight years.*

*Dana earned her bachelor's degree from Northeastern Illinois University. She also holds a master's degree as a Behavior Intervention Specialist and Curriculum Adaptations Specialist. Her research and practicum during her master's program examined chronic absenteeism in adolescents. Dana earned an additional master's degree from Concordia University in School Leadership.*

*She currently teaches Academic Skills, which focuses on IEP goal progress, executive functioning skills, and individual conferencing with students to promote academic achievement and self-advocacy skills.*

*She believes that building trusting, positive relationships are central to student and staff success. On a personal level, Dana enjoys spending time with her two young sons, weekend getaways, and working out.*

## PROGRAM DESCRIPTION

Special Education instruction and services are provided to students with qualifying disabilities as determined in IDEA (Individuals with Disabilities Education Act). Disability eligibility is determined after a comprehensive case study evaluation is completed. This evaluation cannot take place without having obtained parent consent. The components of the case study evaluation are reviewed at an eligibility determination conference that is represented by the multidisciplinary team, appropriate school personnel, student and parents. Through specific criteria, it will be determined if a disability is present and if the disability creates an adverse effect on the student's ability to participate in a traditional educational program.

If the student is eligible for services, an IEP (Individual Education Plan) meeting will take place in order to develop a written plan of action describing the specially designed instruction and related services needed to meet the individual needs of the student. The IEP describes services, modifications, and accommodations that will be provided for the programs that the student will be involved, as well as progress in the general curriculum.

Students are served in the Least Restrictive Environment (LRE). Placement and services are provided along a continuum that meets state and federal guideline. The IEP is reviewed at least annually.

The course offerings in Special Education include all core subjects required for graduation and various electives. In addition, some students may benefit from an Academic Skills class wherein they can work with a Learning Behavior Specialist to make progress toward their annual IEP goals. They may also receive some of their related service instruction such as Social Work or Speech and Language within this environment. As with any Special Education class, such determinations are made based on individual student need and IEP team decision-making.

Transition services are an IDEA-mandated Special Education program available to students, ages 18-22, who have met graduation requirements and continue to work toward individual goals. A coordinated set of activities are designed to help students transition from high school to adult life, such as Vocational Training, Independent Living Skills, Transportation Training, Community-Based Training, and Functional Academics Employment/Education. The Lake Zurich Program gives young adults who have completed their high school graduation requirements an opportunity to work on skills they need to succeed in adulthood in the community. Students will spend half their day in the community working on vocational skills across the Lake Zurich/Deer Park community. Some of our local job sites partners include: Hampton Inn, Holiday Inn, 5 Below, and Walgreens.

# ACADEMIC COURSE OFFERINGS

## Academic Skills

**Department:** Special Education

**Course Number:** Numbers vary per semester and program

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 0.5

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Academic Skills provides students with Individualized Education Plans (IEPs) with specific instruction in their area of need. Throughout the course, students can get instruction in executive functioning, supplementary math, supplementary reading, and writing. Placement in this course is by IEP team decision only. [CLICK HERE](#) to view the course video.

## Vocational Training

**Department:** Special Education

**Course Number:** Numbers vary per semester and program

**Open to Grade Level(s):** 11, 12

**Credit Amount:** 1–3

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Vocational Training is available for juniors and seniors with Individualized Education Plans (IEPs). This course offers community work training at a partner job site. Each student will experience multiple jobs throughout the year. Students travel to job sites with job coaches to assist them with their duties. [CLICK HERE](#) to view the course video.

## Prevocational Training

**Department:** Special Education

**Course Number:** Numbers vary per semester and program

**Open to Grade Level(s):** 9, 10

**Credit Amount:** 1–3

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Prevocational Training is for freshmen and sophomore students with Individualized Education Plans (IEPs) to learn job skills. In the course, students learn interview skills, resume writing instruction, and fill out job applications. Students have the opportunity to attend in-school jobs in the cafeteria and building offices. Placement in this course is by IEP team decision only. [CLICK HERE](#) to view the course video.

## Consumer Math

**Department:** Special Education

**Course Number:** Numbers vary per semester and program

**Open to Grade Level(s):** 9, 10, 11, 12

**Credit Amount:** 1

**Credit Type:** CP

**Prerequisite:** None

**NCAA Approved:** No

Consumer Math is available for any high school student with an Individualized Education Plan (IEP) by IEP team decision only. This class integrates math concepts with real-world applications. In this course, students learn to establish budgets, purchase items, and many other applicable skills to their lives in regards to math. [CLICK HERE](#) to view the course video.



# STUDENT RESOURCE: FOUR-YEAR PLANNING GUIDE

## FRESHMAN

SEMESTER 1 REQUIREMENTS	SEMESTER 1 SELECTIONS
1. English	1. _____
2. Mathematics	2. _____
3. Science	3. _____
4. Freshman Physical Education	4. _____
5. Social Studies	5. _____
6. Elective	6. _____
7. Elective	7. _____
8. Study Hall or Elective	8. _____

SEMESTER 2 REQUIREMENTS	SEMESTER 2 SELECTIONS
1. English	1. _____
2. Mathematics	2. _____
3. Science	3. _____
4. Freshman Physical Education	4. _____
5. Social Studies	5. _____
6. Elective	6. _____
7. Elective	7. _____
8. Study Hall or Elective	8. _____

## SOPHOMORE

SEMESTER 1 REQUIREMENTS	SEMESTER 1 SELECTIONS
1. English	1. _____
2. Mathematics	2. _____
3. Science	3. _____
4. Sophomore Physical Education	4. _____
5. Elective (SS recommended)	5. _____
6. Elective	6. _____
7. Elective	7. _____
8. Study Hall or Elective	8. _____

SEMESTER 2 REQUIREMENTS	SEMESTER 2 SELECTIONS
1. English	1. _____
2. Mathematics	2. _____
3. Science	3. _____
4. Health	4. _____
5. Elective (SS recommended)	5. _____
6. Elective	6. _____
7. Elective	7. _____
8. Study Hall or Elective	8. _____

## JUNIOR

SEMESTER 1 REQUIREMENTS	SEMESTER 1 SELECTIONS
1. English	1. _____
2. Mathematics	2. _____
3. Science (recommended)	3. _____
4. Physical Education	4. _____
5. United States History	5. _____
6. Elective	6. _____
7. Elective	7. _____
8. Study Hall or Elective	8. _____

SEMESTER 2 REQUIREMENTS	SEMESTER 2 SELECTIONS
1. English	1. _____
2. Mathematics	2. _____
3. Science (recommended)	3. _____
4. Physical Education	4. _____
5. United States History	5. _____
6. Elective	6. _____
7. Elective	7. _____
8. Study Hall or Elective	8. _____

## SENIOR

SEMESTER 1 REQUIREMENTS	SEMESTER 1 SELECTIONS
1. English	1. _____
2. Mathematics (recommended)	2. _____
3. Science (recommended)	3. _____
4. Physical Education	4. _____
5. Government	5. _____
6. Elective	6. _____
7. Elective	7. _____
8. Study Hall or Elective	8. _____

SEMESTER 2 REQUIREMENTS	SEMESTER 2 SELECTIONS
1. English	1. _____
2. Mathematics (recommended)	2. _____
3. Science (recommended)	3. _____
4. Physical Education	4. _____
5. Consumer Education	5. _____
6. Elective	6. _____
7. Elective	7. _____
8. Study Hall or Elective	8. _____

