

# LEWIS CENTRAL HIGH SCHOOL

## COURSE DESCRIPTIONS HANDBOOK

2023-2024



PLEASE NOTE THAT THE MOST CURRENT VERSION OF THIS DOCUMENT CAN BE FOUND ON THE LEWIS CENTRAL HIGH SCHOOL WEBPAGE. EFFORTS WILL BE MADE TO NOTIFY STUDENTS OF ANY CHANGES, BUT IT IS THE STUDENT'S RESPONSIBILITY TO RESPOND AND/OR SEEK GUIDANCE FOR ANY CHANGES.

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The Lewis Central Community School District does not discriminate on the basis of sex, race, religion, color, national origin, marital status, sexual orientation, gender identity, physical attributes or disability in its educational programs, services, or employment practices.

Inquiries concerning application of this statement should be addressed to Equity Coordinator, Laurie Thies, 4121 Harry Langdon Blvd., Council Bluffs, Iowa 51503 (712) 366-8311.

## Letter to Parents and Students

Dear Students and Parents:

This course description book has been prepared to better acquaint you with the course offerings at Lewis Central High School and to provide information which may assist you in the selection of courses. Pre-registration for the next school year takes place each spring. It is very important that appropriate class selections be made at this time. Although some of your courses are required for graduation, you will have many choices to make during your four years at Lewis Central. The courses you select should be guided in large part by your interests and plans after high school.

Are you planning a career in business? Will you continue your studies at a university, college, or technical school? Are you considering entering the military? Some students are fairly sure of their future plans; others are less sure. It is common for young people to change their minds about which career to choose. For this reason, it is important for you to plan as challenging a program as you can. If your career plans change, then it would not be as difficult to move into another program. Even though it may be tempting to choose less demanding courses, doing so may not adequately prepare you for your future.

Although course selection is primarily your responsibility, you will have assistance from your counselor, your teachers, and your parents. It is important that you carefully read the course descriptions in this booklet so you don't miss a graduation requirement, a prerequisite to an advanced course, a requirement for admission to college, or a deadline to enroll in postsecondary courses.

Parents and students who have questions about course registration should contact their student's assigned school counselor at the number listed below.

Sincerely,

Curt Mace  
9-10 School Counselor  
712-366-8565

Jeff Vacek  
11-12 School Counselor  
712-366-8566

Julie McComas  
CTG Counselor  
712-366-8307

## INDEX OF CLASSES

### Reference Guide

<b>Course</b>	Title of the LCHS course.
<b>Term</b>	The number of trimesters the course is scheduled.
<b>Prerequisites</b>	Requirements that must be met prior to a student enrolling in a course.
<b>NCAA</b>	The course counts towards NCAA eligibility. <a href="#">NCAA Eligibility Center - High School Portal</a>
<b>RAI</b>	The course counts towards a student's RAI score. <a href="#">Regent Admission Index</a>
<b>CC</b>	College credit options are available upon successful completion of the course/and or examination.
<b>Weight</b>	The course grade is weighted. (See pg. 15 for more information)

### Art Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Art I	1					
Art II A & B	2	Art I				
Advanced Art	2	Art I & II				
Introduction to Pottery	1					
Advanced Pottery	1	Introduction to Pottery				
Advanced Art Projects	1	Advanced Art				

### Business Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Introduction to Business	1					
Business Law	1					
Accounting I A & B	2					
IWCC Principles of Accounting I	1	Recommended: Accounting I			X	X
Personal Finance	1	Junior Standing				
College Readiness	1	Junior Standing or Approval				
Workplace Readiness	1	Junior Standing or Approval				

### Business Department Continued

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Internship	1-2	Senior Standing or Approval				
Principles of Marketing	1					
Web Design	1					

### Family & Consumer Sciences Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Introduction to Food & Nutrition	1					
Culinary Arts I	1	Introduction to Food & Nutrition				
Culinary Arts II	1	Culinary Arts I				
Child Development	1	Junior/Senior Standing or Approval				
Housing & Interior Design	1					
Interpersonal Relationships	1					
Parenting	1	Junior/Senior Standing or Approval				
Introduction to Fashion Construction	1					
Advanced Fashion Construction	1	Introduction to Fashion Construction				
Fashion Design & Merchandising	1	Advanced Fashion Construction				
Fashion Couture	1	Fashion Design & Merchandising				

### Foreign Language Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Spanish I A & B	2		X	X		
Spanish II A & B	2	Spanish I	X	X		
Spanish III A & B	2	Spanish II	X	X		

## Foreign Language Department Continued

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Spanish IV A & B	2	Spanish III	X	X		

## Technology & Engineering Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Introduction to Building Techniques	1					
Theatre Technology: Scenic Construction & Design	1	Theater I OR Introduction to Building Techniques OR Teacher Recommendation				
Residential Cabinet Construction	1	Introduction to Building Techniques				
Advanced Woodworking	1	Residential Cabinet Construction				
Principles of Building Construction A & B	2	Residential Cabinet Construction OR Architectural Drafting A				
Residential Interiors and Finishes A & B	2	Principles of Building Construction B				
Home & Car Care	1	Sophomore/Junior/Senior Standing OR Approval				
Electronics	1	Recommended: 1st Year Algebra				
Fundamentals of 3D Modeling	1					
Concepts of 3D Assembly	1	Fundamentals of 3D Modeling				
Architectural Drafting A & B	2					
Drafting Applications	1	Architectural Drafting B OR Concepts of 3D Assembly				
PLTW Intro to Engineering Design (IED) A & B	2				X	X
PLTW Principles of Engineering (POE) A & B	2	Introduction to Engineering Design			X	X
PLTW Digital Electronics (DE) A & B	2	Electronics & 1 <sup>st</sup> -year Algebra OR Instructor Approval OR Principles of Engineering			X	X

## Technology & Engineering Department (Continued)

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
PLTW Civil Engineering & Architecture (CEA) A & B	2	POE OR Architectural Drafting B			X	X
PLTW Computer Integrated Manufacturing (CIM) A & B	2	POE OR Fundamentals of 3D Modeling			X	X
PLTW Computer Science Essentials A & B	2				X	X
PLTW Computer Science Principles A & B (Cross-listed in Mathematics)	2	Computer Science Essentials OR POE			X	X
PLTW Cyber-Security A & B	2				X	X
PLTW Engineering Design & Development (EDD) A & B	2	IED, POE, & One Specialization Course			X	X

## Language Arts Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
English 9 A, B, & C	3		X	X		
English 10 A & B	2	English 9 A, B, & C	X	X		
Intro to Advanced Lit Analysis (IALA) A & B	2	English 9 A, B, & C	X	X		
English 11 American Literature A & B	2	English 10 A & B	X	X		
AP Literature and Composition A & B	2	English 9 and 10 or IALA A & B	X	X	X	X
Speech I	1		X	X		
IWCC Public Speaking	1	Proficient on Most Recent Iowa Assessments	X	X	X	X
Speech II	1	Speech I OR IWCC Public Speaking	X	X		
Theatre I	1					
Theatre II	1	Theatre I & Audition, Teacher Permission, OR Invitation				

## Language Arts Department (Continued)

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
IWCC English Composition I	1	Proficient on Most Recent ISASP and one of the following: *2.6 unweighted high school GPA *ACT English Score 18 *3.0 English Subject GPA *Honors/AP Course Completion (any subject) *College-Ready Benchmark on District/State English Assessment	X	X	X	X
IWCC English Composition II	1	Composition I (Completed with a "C" or higher)	X	X	X	X
AP Language and Composition A & B	2	English 10 A & B OR IALA A & B	X	X	X	X
IWCC Multicultural Literature (offered every-other year)	1	Proficient on Most Recent ISASP	X	X	X	X
Exploring Literature	3	Administrative Approval				
Advancing Literacy A, B, & C	3	Administrative Approval				
Introduction to Journalism	1					
Media Production	1			X		
Yearbook	1			X		
Creative Writing	1		X	X		

## Math Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Algebra Concepts A, B, & C	3	Administration Approval	X	X		
Algebra 1 & 2	2		X	X		
Geometry Concepts A, B, & C	3	1st-year Algebra & Administration Approval	X	X		
Geometry 1 & 2	2	1st-year Algebra	X	X		
Algebra 3-4	2	1st-year Algebra	X	X		
Transitional Algebra A & B	2	1st-year Algebra				



## Math Department Continued

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
IWCC Statistics	1	Proficient on Most Recent ISASP and one of the following: *2.8 unweighted high school GPA *Math ACT 19 or higher OR Math SAT 510 or higher	X	X	X	X
IWCC College Algebra		Proficient on Most Recent ISASP and one of the following: *Math ACT 21 or higher OR Math SAT 530 or higher *Two years of high school Algebra or equivalent with grade of C or higher *MAT 102 Intermediate Algebra completed with grade of C or higher	X	X	X	X
AP Statistics A & B	2	1 <sup>st</sup> -year Algebra and 1 <sup>st</sup> -year Geometry	X	X	X	X
PLTW Computer Science Principles A & B (Cross-listed in PLTW)	2	PLTW Computer Science Essentials or PLTW Principles of Engineering	X		X	X

## Music Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Bass Clef Chorus	3					
Treble Clef Chorus	3					
Bella Voce	3	Pass Audition				
Chamber Choir	3	Pass Audition				
Lewis Corporation	2	Pass Audition				
Lewis Company	2	Pass Audition				
Band/Marching Band	1					
Concert Band	2	Participation in Band/Marching Band OR previous band experience				
Symphonic Band	2	Participation in Band/Marching Band OR previous band experience; Audition				

## Music Department Continued

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Jazz Band	1	Participation in Concert or Symphonic Band; Audition				
Jazz Lab/Jazz Combo (offered Tri 2 only)	1	Previous experience in band; Audition				
Music Appreciation	1					
Advanced Music Theory	1	Participation in Band or Choir				
Humanities I	1	U.S. History A & B and World History A & B				

## Physical Education

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Team Activities I	1					
Wellness for Life I	1					
Introduction to Personal Development	1	9th Grade Only				
Personal Development	1	Introduction to Personal Development OR Teacher Approval				
Health I	1					
Health II	1	Health I				

## Science Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Biology Concepts A, B, & C	3	Administrative Approval		X		
Biology A & B	2	Successful completion of Biology A is required to enroll in Biology B	X	X		
Physical Science Concepts A, B, and C	3	Administrative Approval and 1st Year Biology		X		
Physical Science A & B	2	Biology A & B and successful completion of Physical Science A is required to enroll in Physical Science B	X	X		

## Science Department Continued

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
AP Biology A, B, & C (may be offered every-other year)	3	Biology A and B OR Teacher recommendation and Junior/Senior Standing or Approval	X	X	X	X
Chemistry A and B	2	Physical Science A & B, 1 <sup>st</sup> -year Algebra, and successful completion of Chemistry A is required to enroll in Chemistry B	X	X		
General Physics A and B	2	Physical Science A & B and 1st-year Algebra	X	X		
Earth & Space Science	1	Recommended: Physical Science B	X	X		
Ecology	1	Biology A & B	X	X		
Human Anatomy A	1	Biology A & B	X	X		
Human Anatomy B	1	Human Anatomy A	X	X		
Human Physiology	1	Human Anatomy A & B	X	X		
Meteorology	1	Recommended: Physical Science B	X	X		
Zoology	1	Biology A & B	X	X		

## Social Science Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
U.S. History A & B	2		X	X		
IWCC U.S. History Since 1877	1	Proficient on Most Recent ISASP	X	X	X	X
World History A & B	2	U.S History A & B OR IWCC U.S. History Since 1877	X	X		
AP World History: Modern A & B	2	U.S History A & B OR IWCC U.S. History Since 1877	X	X	X	X
American Government A & B	2	World History and U.S History A & B OR IWCC U.S. History Since 1877	X	X		

### Social Science Department Continued

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Current Issues	1	U.S History A & B OR IWCC U.S. History Since 1877 and Junior/Senior Standing or Approval	X	X		
Economics	1	Junior/Senior Standing or Approval	X	X		
Psychology	1	Junior/Senior Standing or Approval	X	X		
Sociology	1	Junior/Senior Standing or Approval	X	X		
IWCC Western Civ: Early Modern to Present	1	Proficient on Most Recent ISASP	X	X	X	X

### English Language Learner Department (ELL)

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
English as a Second Language (ESL)	1	ELL District Testing				

### Gifted Education Department

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
TAG Independent Study	1	TAG Identification				

### Special Education Department

Course			NCAA*	RAI	CC	Weight
Basic Reading A, B, & C						
Basic English A, B, & C						
English/Language Arts Essentials A, B, & C						
Social Studies Essentials A, B, & C						
Science Essentials A, B, & C						

## Special Education Department

Course	Terms	Prerequisites	NCAA*	RAI	CC	Weight
Math Essentials A, B, & C						
Basic Math A, B, & C						
Learning Strategies						
Independent Living Skills						
Work Skills Essentials						
Cooperative Work Experience						
Community Work Experience						

\*Special education courses can only be used to meet NCAA eligibility if the student has a diagnosed disability.

## OTHER

Course	Terms	Prerequisites	NCAA	RAI	CC	Weight
Office Aide	1	Administrative Approval and Junior/Senior Standing				
Elementary or High School Teacher Aide	1	Junior/Senior Standing or Approval				
Connections to Graduation (CTG)	1	Counselor Approval				
Success Strategies	1					

## MINIMUM GRADUATION REQUIREMENTS

Department	Required Courses	Required Credits
<b>English</b>	English 9 A, B, & C English 10 A & B English 11 A & B Speech I *Other English classes may be substituted with administrative approval.	<b>8</b>
<b>Social Science</b>	U.S. History A, B World History A, B American Government A, B *Other social science classes may be substituted with administrator approval.	<b>6</b>
<b>Science</b>	Biology A & B <b>OR</b> Biology Concepts A, B, & C Physical Science A & B <b>OR</b> Physical Science. Concepts A, B, & C Science electives (Two Trimesters if applicable) *Other science classes may be substituted with administrative approval.	<b>6</b>
<b>Math</b>	Algebra 1 & 2 <b>OR</b> Algebra Concepts A, B, & C Geometry 1 & 2 <b>OR</b> Geometry Concepts A, B, & C Algebra 3 & 4 or Transitional Algebra A & B Other math classes may be substituted with administrative approval.	<b>6-8</b> (depending on math sequence)
<b>Physical Education</b>		<b>4</b>
<b>Health</b>	Health I	<b>1</b>
<b>Postsecondary Planning</b>	Workplace Readiness <b>OR</b> College Readiness	<b>1</b>
<b>Life Skills</b>	Personal Finance Parenting One course from the Technology and Engineering Department	<b>3</b>
<b>Fine Arts</b>	Must include one course from two different areas for a total of two credits: Music, Art, Drama, Humanities	<b>2</b>
<b>Other Electives</b>		<b>16-18</b> (depending on math sequence)
<b>TOTAL</b>		<b>55</b>

## **REGISTRATION GUIDELINES**

All 9<sup>th</sup>-, 10<sup>th</sup>- and 11<sup>th</sup>-graders will be registered in six classes each term. Seniors will be advised to register for five classes each term, unless they plan to enroll in courses off campus, such as concurrent enrollment or career academy classes. Students must meet all prerequisites for a course.

Students participating in school activities must be a full-time student. Students must be enrolled in five (5) different credit classes each trimester to be considered a full-time student. Senior students who have accumulated 50 credits can be considered full-time if they are enrolled in and passing four (4) different credit classes with parent approval. Office aide, teacher aide, library aide, and Titan Times do not count as classes for the purpose of being a full-time student.

## **SCHEDULE CHANGES**

The class schedule students receive at the beginning of the school year is based upon the registration process completed in the spring. Parents, students and the school must consider the spring registration process as being one of a near contractual agreement. Therefore, class schedules are not subject to change in terms of courses selected or class periods scheduled. Work schedules, jobs, open campus privileges or before and after school responsibilities must work around the class schedule provided at the beginning of the school year.

Students who need to add or drop a class must do so within three days after the start of the trimester. A student will only be considered for a schedule change if one of the following conditions exists: health problems, computer error, misplacement, failing prerequisites, incomplete schedule or graduation requirement. The school counselor's permission is necessary to add or drop a class. Late drops will generate a grade of "F" for the dropped class unless an extraordinary situation exists and an exception is made by building administration. The following procedure must be used to change/drop any class:

- 1) The student must see his/her counselor to make a request for a schedule change. The school counselor may request permission from the parent/guardian to make the schedule change.
- 2) The schedule change does not take effect until a copy of the new schedule is given to the student. The original schedule will be followed until the change becomes effective.
- 3) Any student who drops a class past the three day deadline must involve the classroom teacher, have parental permission, have a graduation credit check completed by his/her counselor and gain the approval of a building administrator.

## **GRADING POLICIES**

Explanation of Letter Grades:

**A** - A student has mastered the concepts and skill presented, as is evidenced by his/her consistent and extraordinary application of the knowledge.

**B** - A student has attained a substantial degree of mastery of the concepts and skills presented, as is evidenced by his/her consistent and high quality application of this knowledge.

**C** - A student has acquired the basic skills and concepts of the subject presented and is able to apply them to a satisfactory degree.

**D** - A student lacks a sufficient knowledge of the concepts and skills presented and, therefore, has difficulty applying them to a satisfactory degree.

**F** - A student has not acquired basic fundamental concepts and skills and, therefore, is unable to apply them to a satisfactory degree.

**P** - Satisfactory work in a pass/fail course.

I - A student has not completed the required academic work and is entitled to additional time to complete it. The teacher will advise the student of the work to be done and the due date. An "I" grade must be changed within ten school days or it will be recorded as an "F", unless the administration grants an extension of time.

The following table outlines the LCHS grading scale and grade point values for both unweighted and weighted grades. Computing grade point averages can be difficult given variations in credit amounts, so if you have questions about this computation please consult with your school counselor

The purpose of weighted grade point values is to encourage students to take courses that are challenging and considered to be academically rigorous. Courses that have college credit associated with the course will receive a weighted grade point average. This would include, but not limited to, courses that require a set assessment score for enrollment, have assessments associated with the course for college credit, and/or awarded credit by a recognized college. Each grade level has an additional 0.5 added, in order to reward college level/advanced academic student achievement.

Letter Grade	Percentage	Unweighted GPA Value	Weighted GPA Value
A+	99-100	4.33	4.83
A	95-98	4.00	4.50
A-	93-94	3.67	4.17
B+	91-92	3.33	3.83
B	88-90	3.00	3.50
B-	86-87	2.67	3.17
C+	83-85	2.33	2.83
C	80-82	2.00	2.50
C-	78-79	1.67	2.17
D+	75-77	1.33	1.83
D	72-74	1.00	1.5
D-	70-71	0.67	1.17
F	69 & Below	0	0

### SENIOR YEAR PLUS PROGRAM

Senior Year Plus (SYP) was created to provide increased and more equal access to college credit and advanced placement courses. Courses delivered through SYP provide students the opportunity to take a rigorous college curriculum and receive, in many cases, both high school and college credit concurrently. Senior Year Plus includes requirements specific to particular programs including PSEO, AP, concurrent enrollment, career academies, summer college credit program, and Project Lead the Way.



## Advanced Placement

Advanced Placement (AP) courses are college level courses offered by high schools. The courses, curriculum requirements, and optional tests are provided by The College Board. Based on the examination score and the postsecondary institution's policies, students may be eligible for college credit or advanced standing at the college or university to which they later matriculate. AP classes are offered in two formats for students at LCHS. There are AP courses offered in a traditional format throughout the school day and taught by our teachers. Additionally, other AP offerings are available online.

Iowa's Online Advanced Placement Academy (IOAPA) allows students who qualify for AP courses to enroll in a limited number of grant-funded online AP classes that are not offered in person at LCHS. Both semester and year-long courses are offered through this program and may include the following: AP Calculus AB, AP US History, AP Psychology, AP Microeconomics, AP Macroeconomics, and AP US Government (*does not satisfy the state's requirements for US Government as a graduation requirement.*) Lewis Central is given a limited number of registrants and courses available vary from year to year. Students must meet due dates, which do not necessarily align with trimesters. The fee for dropping after a certain date or not completing the course will be assessed to the student.

Students who qualify for free or reduced lunch are eligible to have their AP exam fee reduced to \$52. Approval of the principal is required. Questions or more information can be directed to the Advanced Placement Coordinator. Grades for online courses are reported on student transcripts. To search your future college of choice and their AP credit policy, visit the following website: [AP Credit Policy Search – AP Students – College Board](#).

## Concurrent Enrollment

The concurrent enrollment program promotes rigorous academic or career technical education (CTE) pursuits by providing opportunities for high school students to enroll in eligible courses at or through Iowa Western Community College (IWCC).

In order to be eligible to enroll in arts and science courses, students must demonstrate proficiency in reading (English-language arts), mathematics and science on their most recent Iowa Statewide Assessment of Student Progress (ISASP). In addition, the student must also meet eligibility requirements as established by IWCC in order to enroll in composition and/or math courses. Students seeking to enroll in a career and technical education (CTE) coursework via concurrent enrollment are exempt from the ISASP proficiency requirements.

Each student will then work individually with the school counselor to select courses that will fit into their schedule and meet their academic needs. You will register through the counseling office by completing an IWCC application. If you have already filled out an application during enrollment in a previous course, then you will not need to do so again.

Credit for these courses will be granted at both the high school and community college.. Therefore, courses taken through this program will appear on both the student's Lewis Central High School transcript and the student's IWCC transcript. IWCC courses can be used to meet high school graduation requirements and will be used to calculate high school GPA. Students may elect to transfer credit to the college or university of their choice upon high school graduation. Any request to transfer college credit must be made through the Registrar's Office at IWCC. Students must typically earn a "C" or better in order for the credit to transfer.

The district covers the cost of tuition, textbooks, tools, and equipment required for each course. Parents or guardians will be required to furnish transportation to and from IWCC, when necessary.

Students may elect to enroll in coursework offered through a variety of delivery methods including online and in-person (IWCC campus or LCHS campus). Students could consult the IWCC course schedule each term in order to determine available coursework online or on the IWCC campus. The following is a list of courses available for students to take on the LCHS campus.

## CONCURRENT ENROLLMENT COURSES OFFERED THROUGH IWCC AT LCHS

LCHS Course Name (# of HS credits)	IWCC Course Title	IWCC Course #	College Credits	Prerequisites
IWCC English Composition I (1)	Composition I	ENG 105	3	Proficient on Most Recent ISASP and one of the following: *2.6 GPA *ACT English Score 18 *3.0 English Subject GPA *Honors/AP Course Completion (any subject) *College-Ready Benchmark on District/State English Assessment
IWCC English Composition II (1)	Composition II	ENG 106	3	A grade of "C" or higher in Composition I
IWCC Multicultural Literature (1)	Multicultural Literature	LIT 134	3	Proficient on Most Recent ISASP
IWCC Public Speaking (1)	Public Speaking	SPC 112	3	Proficient on Most Recent ISASP
IWCC Principles of Accounting I	Principles of Accounting I	ACC 121	3	Recommended: Accounting I A & B
IWCC U.S. History Since 1877 (1)	U.S. History Since 1877	HIS 152	3	Proficient on Most Recent ISASP
IWCC Western Civ: Early Modern to Present (1)	Western Civ: Early Modern to Present	HIS 110	3	Proficient on Most Recent ISASP
IWCC College Algebra (1)	College Algebra	MAT 121	4	Proficient on Most Recent ISASP and one of the following: *Math ACT 21 or higher OR Math SAT 530 or higher *Two years of high school Algebra or equivalent with grade of C or higher *MAT 102 Intermediate Algebra completed with grade of C or higher
IWCC Statistics (1)	Statistics	MAT 157	4	Proficient on Most Recent ISASP and one of the following: *2.8 high school GPA *Math ACT 19 or higher OR Math SAT 510 or higher

### Summer College Credit Program

The Summer College Credit Program (SCCP) is designed to increase participation in career and technical education programs aligned to in-demand occupations. Course offerings through the SCCP function like standard concurrent enrollment courses offered during the typical academic year in that the requirements for students, courses, instructors and institutions are the same for both. Consult with your school counselor to determine which courses are available for enrollment through this program.

### Postsecondary Enrollment Options Program

The Postsecondary Enrollment Options Program (PSEO) allows eleventh and twelfth grade students, as well as ninth and tenth grade students identified as gifted and talented, to enroll in college courses through eligible postsecondary institutions, including Iowa's public universities, private colleges and universities, and eligible proprietary institutions. Through the program, individual students may enroll in an eligible postsecondary course if a comparable course is not offered at their school. Students may not enroll into a PSEO course when it is possible for such enrollment to be handled through a contracted course offered through the concurrent enrollment program.

The school district pays the eligible postsecondary institution for the cost of the course. If the student successfully completes the course, it is provided free to the student (except possible equipment purchases). If a student fails to complete the course and is not eligible for a waiver, the student or the student's parent or guardian may be required to reimburse the district's cost. Successful completion of the course generates high school credit and applies toward district subject area and graduation requirements.

## Career Academies

Career academies are career-oriented or occupation-orientated programs of study offered to high school students through Iowa Western Community College. Enrollment in career academy programs provide students with the opportunity to earn college credit that can lead to a certificate, diploma, or associate's degree. Available program areas include, but are not limited to: welding, automotive technology, diesel technology, construction technology, culinary arts, advanced manufacturing, nurse aide, early childhood education, agribusiness, business administration, and computer science. Career academies follow the same guidelines outlined in the concurrent enrollment program.

## Project Lead the Way

Project Lead the Way® (PLTW) provides science, technology, engineering, and mathematics (STEM)-oriented curriculum in several areas, including engineering, biomedical, and computer science. Project Lead the Way (PLTW) classes offered on campus are listed in the table below and may be eligible for college credit at designated colleges and universities. Students should review the [Student Opportunities](#) section of the PLTW website for more information.

LCCHS Course Name (# of HS Credits)	Description
PLTW Introduction to Engineering Design (2)	Teaches students to use a problem-solving model to improve existing products and invent new ones. Using three-dimensional modeling software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.
PLTW Principles of Engineering (2)	Explores the wide variety of careers in engineering and technology as well as various technology systems and manufacturing processes. Students learn how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people. The course also addresses concerns about social and political consequences of technological change.
PLTW Digital Electronics (2)	This course in applied logic encompasses the application of electronic circuits and devices. Students use computer simulation software to design and test digital circuitry prior to the actual construction of circuits and devices.
PLTW Computer Integrated Manufacturing (2)	Expands prior three-dimensional modeling skills. Students use automation, control systems, sensing devices, computer programming, and robotics to efficiently mass produce products. Trouble-shooting is emphasized throughout this course.
PLTW Civil Engineering and Architecture (2)	Provides an overview of these engineering areas, emphasizing the interrelationship and mutual dependence of both fields. Students use state-of-the-art software to solve real-world problems and apply knowledge to hands-on projects. By the end of the course, students are able to give a complete presentation to the client, including three-dimensional renderings of buildings and improvements, zoning and ordinance constraints, infrastructure requirements, and other essential project plans.
PLTW Computer Science Essentials (2)	Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.
PLTW Computer Science Principles (2)	Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Introduction to Computer Science. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.
PLTW Engineering Design and Development (2)	A capstone course where teams of students spend the year solving problems of their own choosing. The teams apply principles developed in the four preceding PLTW courses and are guided by a community mentor. They brainstorm possibilities, research current patents and regulations, construct a working model, test the model in real-life situations (or simulation), document their designs, and present and defend the design to a panel of experts.

## **SUMMER SCHOOL**

Summer school (online) courses are offered at Lewis Central High School each year for credit recovery. Information regarding these options is available in the School Counseling Office.

## **ONLINE CLASSES**

Lewis Central High School may provide online learning opportunities to students with approval. Online learning platforms may include, but are not limited to, IOAPA and Edgenuity.

## **TESTING OUT OF A COURSE**

Students may attempt to test out of a course only if they have principal approval. The general criteria for testing would include students that are within the first three days of a term of their enrollment and have never attempted the course. To successfully test out of a course, a student must pass the final and/or test-out exam with a score of 80% or better. With a successful test-out, the student earns credit for the course and a "P" for Pass is entered on the transcript.

Students may not attempt to pass out of a class that is considered a "lower" level class than one they have taken and passed. Administrative approval would be required for any exception. Students should contact their school counselor for more information. Please note that all courses may not be eligible for testing out.

## **COLLEGE ADMISSION REQUIREMENTS**

No one pattern of preparation will invariably meet admission requirements at all colleges. A four-year comprehensive and balanced program in the major academic subjects is strongly advised and will meet most college requirements and/or recommendations. The regent universities of Iowa have created the Regent Admissions Index (RAI) to help students calculate their admissions decisions.

[Regent Admission Index | Board of Regents State of Iowa](#)















**Fashion Design & Merchandising**

Fashion Design & Merchandising is a one-trimester course designed to offer an overview of the fashion industry. It provides a foundation for entry into the future study of fashion design, merchandising, and textile engineering and the wide range of careers available in the different levels of the fashion industry. Emphasis is given to historical development, textiles, manufacturers, merchandising, domestic and foreign markets, accessories, and retailing. Students will examine clothing production in the areas of preparation for clothing construction, basic clothing construction techniques, consumer decisions, textiles, historical perspectives and design, and career opportunities. Skills in art, communication, mathematics, science, and technology are reinforced in this course. FCCLA may be an integral part of the course. FCCLA leadership activities provide the opportunity to apply instructional competencies and workplace readiness skills to authentic experiences

**Prerequisites:** Advanced Fashion Construction                      **Duration:** 1 term  
**Credits:** 1

**Fashion Couture** (MAY BE REPEATED FOR CREDIT)

Students will apply couture techniques when constructing projects. Patterns will be adjusted/altered to create one-of-a-kind projects. All projects must be approved by the instructor. Each project will incorporate increasingly more detailed designs and techniques.

**Prerequisites:** Fashion Design & Merchandising                      **Duration:** 1 term  
**Credits:** 1





### **Residential Interiors and Finishes A and B**

This course will include training in the fundamentals of construction, as well as the use of hand and power tools and equipment. The focus will be on interior finishing, blueprint reading, construction cost estimation, and building permits and codes. Students will concentrate on rough-in and finish electrical work, plumbing, insulation, door and cabinet installation, drywall hanging, principles of drywall finishing, interior trim, and floor coverings.

**Prerequisites:** Principles of Building Construction A & B      **Duration:** 2 terms  
**Credits:** 2

### **Home and Car Care**

Students will learn how to diagnose, replace and assemble residential house wiring circuits and basic home plumbing, as well as to evaluate rental situations based upon landlord-tenant laws. During the car portion, students will learn to perform basic maintenance procedures. LCI does not provide vehicles for students to use.

**Prerequisites:** Sophomore/Junior/Senior Standing or Approval      **Duration:** 1 term  
**Credits:** 1

### **Electronics**

Have you ever wondered how your computer, video games, or stereo works? Are you interested in learning how a circuit board works? This one-term course will give you the opportunity to discover direct current electricity. You will learn about various components such as resistors, capacitors, diodes, LED, transistors, and more. You will learn how to calculate voltage, current, and resistance using Ohm's law. You will create your own circuit board using components and solder.

**Prerequisites:** 1<sup>st</sup>-Year Algebra Recommended      **Duration:** 1 term  
**Credits:** 1

### **Fundamentals of 3D Modeling**

3D Solid Modeling will be taught using a 3D CAD software drawing program. Using the computer, students will be introduced to CAD 3D modeling techniques. A series of exercises will help students become familiar with the basic vocabulary and concepts of three-dimensional modeling and its software applications. This course provides each student with a concept of drafting and prepares them for future courses in the drafting technology curriculum. It is also offered as a related course for other technology programs, engineering-bound students, and those who developed an interest in a related technical area.

**Prerequisites:** None      **Duration:** 1 term  
**Credits:** 1

### **Concepts of 3D Assembly**

Concepts of 3D Assembly covers how to create, edit, and take apart 3D models using industry standard 3D modeling software. This course explores elements of the 3D development of objects, environments and animations. Topics include the creation and modification of 3D geometric shapes, and rendering techniques. Students will also explore the use of camera light sources and texture. Students will be given an overview in the use of laser printing and 3D rapid-prototyping equipment through a class project.

**Prerequisites:** Fundamentals of 3D Modeling      **Duration:** 1 term  
**Credits:** 1



**\*PLTW Computer Integrated Manufacturing A and B (Project Lead the Way: Specialization Course)**

This specialization course uses a three-dimensional model. Students employ automation, control systems, sensing devices, computer programming, and robotics to efficiently mass produce a product. Troubleshooting is emphasized throughout the course.

**Prerequisites:** Principles of Engineering or Fundamentals of 3D Modeling or Residential Cabinet Construction  
**Duration:** 2 terms  
**Credits:** 2

**\*PLTW Computer Science Essentials A and B (CSE-PLTW)**

Computer Science Essentials exposes students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python® to create apps and develop websites, and learn how to make computers work together to put their design into practice. They apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

**Prerequisites:** None  
**Duration:** 2 terms  
**Credits:** 2

**\*PLTW Computer Science Principles A and B (CSE-PLTW)**

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Introduction to Computer Science. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

**Prerequisites:** Computer Science Essentials or Principles of Engineering  
**Duration:** 2 terms  
**Credits:** 2

**\*PLTW Cyber-Security A and B (CSE-PLTW)**

Cyber-Security provides broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. It inspires algorithmic thinking, computational thinking, and especially, "outside-the-box" thinking. Students will explore the many educational and career paths available to cyber-security experts, as well as other careers that comprise the field of information security. Course objectives include a basic understanding of personal security, a basic understanding of system security, exploration of cyber-security careers and how the skills learned in this course can be applied in the real world of cyber-security, a basic understanding of network security., and the introduction of different aspects of cyber-security such as threat protection, intrusion detection and network protection.

**Prerequisites:** None  
**Duration:** 2 terms  
**Credits:** 2



**PLTW Engineering Design and Development A and B (Project Lead the Way: Capstone Course)**

This is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year.

<b>Prerequisites:</b>	Must have completed: Introduction to Engineering Design, and Principles of Engineering, and 1 Specialization Course	<b>Duration:</b>	2 terms
<b>Credits:</b>	2		

**\*PLTW – Project Lead the Way is a nationally recognized curriculum.**  
College credit may be available.. See your school counselor for more information.







### **IWCC Multicultural Literature/Multicultural Literature**

Multicultural Literature explores through a variety of literary types the cultural and ethnic voices that are an undeniable part of modern American life. Students read, discuss, and critique materials by both American and world authors representing a wide range of ethnic, racial, and other culturally diverse groups. Emphasis centers on the assessment and appreciation of the strengths and values that cultural diversity brings to contemporary society. This counts toward elective credit for LCHS and meets the Iowa Western Diversity Requirement for graduation.

**Prerequisites:** Proficient on Most Recent ISASP      **Duration:** 1 term  
**Credits:** 1 (3 College Credits)

### **Exploring Literature**

Exploring Literature is a class specifically designed to help students raise their reading levels. Students in this class will develop the skills and strategies necessary to understand any type of reading better. This will be accomplished through extensive individual reading, discussions about what is being read, and weekly Read Aloud/Think Aloud activities. Vocabulary lists and accompanying language activities are also a part of this class.

**Prerequisites:** Admin Approval      **Duration:** 3 terms  
**Credits:** 3

### **Advancing Literacy A, B, C**

Advancing Literacy is a reading intervention, targeting students who are experiencing difficulty with reading and who score between the 6<sup>th</sup> and 8<sup>th</sup> grade level on a standardized reading test. This course is designed to improve vocabulary, reading skills, reading test scores, and study skills. Students will enroll in consecutive terms and may opt out after demonstrating proficiency on standardized tests or with administrative approval. They will earn one elective credit for each term completed with a passing grade.

**Prerequisites:** Admin Approval      **Duration:** 3 terms  
**Credits:** 3

### **Introduction to Journalism**

This introductory course presents an overview of the world of desktop publishing, video editing, newspaper coverage, yearbook production and photojournalism. At the end of the course, students are prepared to continue their learning in Yearbook or Media Productions. Both staffs need students that are eager to explore, write about, and photograph the school and the people in it.

**Prerequisites:** None      **Duration:** 1 term  
**Credits:** 1

### **Media Production**

Students on the media production staff are responsible for writing and producing student publications and media. Student responsibilities include content creation, writing, design, photography, and video production. Students will gain skills in public relations, creativity, leadership, communication, ethics, videography, web design, interviewing, fact gathering, marketing, and sales. Students may receive credit for media production more than one year, but the student's responsibilities may change from year to year.

**Prerequisites:** None      **Duration:** 1 term  
**Credits:** 1

### **Yearbook**

Students on the yearbook staff are responsible for designing and producing the LC Titan Yearbook. Student responsibilities include layout and design, photography, and public relations. Students may receive credit for Yearbook for more than one year, but the student's responsibilities may change from year to year.

<b>Prerequisites:</b>	None	<b>Duration:</b>	1 term
<b>Credits:</b>	1		

### **Creative Writing**

Creative Writing is a one-term course designed to allow students to explore the type of writing in which they are interested. This may include poetry, short story, nonfiction, novel, journal and playwriting. Students will be expected to write and/or read on a daily basis; however, the students may choose the subject matter. Students will also participate in writing workshop to discuss writing samples and offer suggestions for editing and revision. Students will publish their writing in the form of entries on the Class Website and complete a course portfolio. Students may take this course multiple times.

<b>Prerequisites:</b>	None	<b>Duration:</b>	1 term
<b>Credits:</b>	1		



### **Algebra 3-4**

Algebra 3-4 is a class designed for the student intending to pursue mathematics courses beyond what is required for high school graduation requirements whether it is a fourth-year of math at high school or at a postsecondary institution. This course is open to students who have successfully completed first-year algebra. Units of study include: Sequences and Functions, Polynomials and Rational Functions, Complex Numbers and Rational Exponents, Exponential Functions and Equations, Transformations of Functions, Trigonometric Functions, and Statistical Inferences. The class is designed over a two-term time period and will fulfill the graduation requirement for second-year algebra. The curriculum is the same as Transitional Algebra A-B except Algebra 3-4 will include the “+” standards to prepare students for additional classes beyond Algebra 3-4. Students need a basic scientific calculator to be successful in this class; a TI30XIIS is recommended.

<b>Prerequisites:</b>	1 <sup>st</sup> -year Algebra	<b>Duration</b>	2 terms
<b>Credits:</b>	1 per term		

### **Transitional Algebra A-B**

Transitional Algebra A-B is a class designed for the student intending to simply fulfill the mathematics requirements for high school graduation. This course is open to students who have successfully completed first-year algebra. Units of study include: Sequences and Functions, Polynomials and Rational Functions, Complex Numbers and Rational Exponents, Exponential Functions and Equations, Transformations of Functions, Trigonometric Functions, and Statistical Inferences. The class is designed over a two-term time period and will fulfill the graduation requirement for second-year algebra. The curriculum is the same as Algebra 3-4 except the “+” standards (standards to prepare students for classes beyond Algebra 3-4) will be omitted. Students need a basic scientific calculator to be successful in this class; a TI30XIIS is recommended.

<b>Prerequisites:</b>	1 <sup>st</sup> -year Algebra	<b>Duration</b>	2 terms
<b>Credits:</b>	1 per term		

### **IWCC Statistics (college credit)**

Statistics introduces descriptive and inferential statistics. Topics include the binomial, normal, student-t and chi-square distributions, descriptive measures, probability, hypothesis testing, estimation and linear regression.

<b>Prerequisites:</b>	Proficient on Most Recent ISASP and one of the following: *2.8 high school GPA *Math ACT 19 or higher OR Math SAT 510 or higher	<b>Duration:</b>	1 term
<b>Credits:</b>	1 per term		

### **IWCC College Algebra (college credit)**

College Algebra provides an intensified study of the topics in algebra and prepares students for higher levels of mathematics. Topics include functions, exponents, logarithms, systems of equations, matrices, polynomials, and conic sections.

<b>Prerequisites:</b>	Proficient on Most Recent ISASP and one of the following: *Math ACT 21 or higher OR Math SAT 530 or higher *Two years of high school Algebra or equivalent with grade of C or higher *MAT 102 Intermediate Algebra completed with grade of C or higher	<b>Duration:</b>	1 term
<b>Credits:</b>	1 per term		



### **AP Statistics A and B (Possible college credit through examination)**

The AP Statistics course is an introductory, non-calculus-based course of statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. (See course description for Probability and Statistics above for some of the major concepts.) There are four themes in AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inferences. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. This course may be taken concurrently with Algebra 3-4 with teacher recommendation or separately during a fourth year of math, but it will **not** satisfy mathematics graduation requirements. The course will offer elective credit for mathematics. It is highly recommended that students purchase a graphing calculator for this course; a TI-84 calculator is recommended.

**Prerequisites:** 1<sup>st</sup>-Year Algebra and Geometry      **Duration:** 2 terms  
**Credits:** 1 per term

### **PLTW Computer Science Principles A and B (CSE-PLTW)**

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Introduction to Computer Science. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW CSP's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment.

**Prerequisites:** Computer Science Essentials  
OR Principles of Engineering      **Duration:** 2 terms  
**Credits:** 2





### **Jazz Band**

This ensemble will be the premier Jazz Ensemble at LCHS. This ensemble will perform in two concerts second trimester, and at several local, state, and regional competitions, including the Iowa Jazz Championships. Curriculum covered in this class will include, but not be limited to, improvisation, advanced listening, jazz literature, and jazz history. Students in the Jazz Band will be encouraged to participate in a Combo Group and the All State Jazz Band. Rehearsals will take place during 2nd trimester and will include after school work as assigned by the director, with weekly sectionals held for winds and percussion. Students will be eligible to audition using the standard jazz instrumentation of rhythm instruments, trumpet, trombone, or saxophone.

**Prerequisites:** Participation in Concert Band OR  
Symphonic Band  
Audition with Band Directors  
**Duration:** Trimester 2 only  
**Credits:** 1 per term

### **Jazz Lab/Jazz Combo** (offered Tri 2 only)

Jazz lab/Jazz Combo will be a learning ensemble at LCHS. This ensemble will focus on developing the jazz language and individual musical growth through improvisation, listening and introductory performance. Members will study and perform different forms of jazz music. Each student is expected to show musical and technical growth through participation in this ensemble. No prior jazz experience is required, however experience on an instrument is required.

**Prerequisites:** Participation in Concert Band  
Audition with Band Directors  
**Duration:** 1 term  
**Credits:** 1

### **Music Appreciation**

This is a general music course that covers a broad range of musical styles and concepts that advance the appreciation of music for future consumers and performers of music. Students will be asked to present class presentations through computer research, read and become familiar with music vocabulary and terminology, write responsively to music examples played in class, and take quizzes and tests that focus around the class text. No formal musical experience or training is required.

**Prerequisites:** None  
**Duration:** 1 term  
**Credits:** 1

### **Advanced Music Theory**

This is an advanced level music class for students looking to study the specifics of music theory on an advanced or college preparatory level. Knowledge of basic computer (Noteflight, Finale) skills, along with participation in Band and/or Choir is required. Students in grades 11-12 are eligible, 10th by instructor approval..

**Prerequisites:** Participation in Band or Choir  
**Duration:** 1 term  
**Credits:** 1

### **Humanities I**

Humanities I will cover music, philosophy, architecture and art from 1400 to the present. Students will develop an appreciation of the visual arts (2D, 3D) and music from these periods.

**Prerequisites:** Completion of American  
AND World History  
**Duration:** 1 term  
**Credits:** 1

## PHYSICAL EDUCATION DEPARTMENT

(Students may take only one physical education course per trimester.)

### Team Activities

This course is designed to promote physical fitness skills, active participation and human relations skills. Team activities could include basketball, volleyball, softball, flag football, soccer, lead-up skill games, and innovative team activity games.

**Prerequisites:** None  
**Duration:** 1 term  
**Credits:** 1

### Wellness for Life

This course is offered in the fall and spring only. This required course is designed to promote participation in activities throughout an individual's lifetime. The lifetime activities include personal fitness, tennis, and recreational games.

**Prerequisites:** None  
**Duration:** 1 term  
**Credits:** 1

### Introduction to Personal Development

Intro to Personal Development is designed for freshman students who want to participate in a strength and conditioning course for the first time. The class is designed to help improve muscular strength and cardiovascular endurance through proper strength/lifting routines and exercise techniques. Safety procedures and the importance of proper nutrition will be included as will goal setting. The skills and techniques taught in this class will lead to overall physical improvement and provide a base knowledge of information that will be built upon in the more advanced version of personal development class that students will be able to take upon successful completion of this course.

**Prerequisites:** None  
**Duration:** 1 term  
**Credits:** 1

### Personal Development

This course is a continuation of Intro to Personal Development and will include advanced training techniques in the area of strength and fitness. Additional topics that will be discussed include: Nutrition planning, sleep, recovery techniques, and latest trends related to health and fitness..

**Prerequisites:** Successful completion of  
Intro to Prsnl Dvlpmnt or  
Permission from Instructor  
**Duration:** 1 term  
**Credits:** 1

### Health I (Required)

This class is required to meet graduation requirements. The class will include personal wellness, social, emotional and mental health, decision making, communication skills, alcohol, medication and prescription use/misuse, healthy and abusive personal and family relationships, CPR/AED Education, STI's and pregnancy prevention. Students learn to differentiate between healthful and harmful behaviors and recognize the effects of the behaviors they choose.

**Prerequisites:** None  
**Duration:** 1 term  
**Credits:** 1

## **Health II**

Health II is a course which provides current facts about mental health disorders, family health, choosing health care, health professions, cancer, heart disease, physical and mental disabilities, community and environmental health. Students learn to differentiate between healthful and harmful behaviors and recognize the effects of the behaviors they choose.

<b>Prerequisites:</b>	Health I	<b>Duration:</b>	1 term
<b>Credits:</b>	1		

### **Senior-Year Physical Education Waiver Criteria and Guidelines**

Students must complete a PE Waiver Request form (available from Activities Director) and meet all of the following conditions:

1. Must have been enrolled in six periods (allowing no time for PE) during their entire four years of high school. This includes classes that are taken through Iowa Western. Students must have also successfully taken and received three credits from various physical education classes prior to their senior year (based on their graduation year). To ensure this, PE Waivers will not be reviewed until the beginning of second trimester, senior year.
2. Students must have successfully completed two full high school seasons of eligible activities (all levels of IAHSAA approved interscholastic athletics, marching band, show choir, dance, and cheerleading) to receive a waiver to meet ONE of their Physical Education graduation requirements.
3. Successful completion of the full season will be determined and certified by the coach, director, or advisor and approved by the Activities Director. Completion is not based on actual playing time; it is based on being on the team and being present for practices and games as identified on the coach's first eligibility list of the season as well as the final awards list as approved by the head coach and Activities Director. If injured, students must continue to attend practice and participate in appropriate physical conditioning as allowable according to the injury and attend remaining games/performances.

## SCIENCE DEPARTMENT

### **Biology Concepts A, B, and C**

Biology Concepts is a three-term course that will focus on engaging students in collaborative problem-solving, high-level critical thinking, and productive struggle. This class will concentrate on ecology including but not limited to, how organisms grow and develop, how populations change over time, and how homeostasis maintains balance in ecosystems. This class will also include the study of genetics including but not limited to how traits occur in organisms, how genotypes and phenotypes impact natural selection, and how a gene regulates the cell cycle. The class is designed over a three-term time period and will fulfill the graduation requirement for Biology. Although the material is presented at a different pace than Biology A and B, it is the same curriculum. The student must successfully complete each trimester of the course to advance to the next term.

**Prerequisites:** Admin Approval

**Duration:** 3 terms

**Credits:** 1 per term

### **Biology A and B (Required)**

Biology is a two-term course which covers many of the topics common to all of biology. The first term (Biology A) will concentrate on the nature of life, biology as a science, tools of biology, the cell, classification, respiration, photosynthesis, mitosis, and concepts in ecology. A student must pass Biology A before enrolling in Biology B. Biology B includes meiosis and the study of genetics. Genetics topics to be studied include Mendelian genetics, modern genetics and biotechnology and the evolutionary process.

**Prerequisites:** none

**Duration:** 2 terms

**Credits:** 2

### **Physical Science A and B (Required)**

This is a two-term course that covers concepts in physical science. Term one includes the scientific process and an overview of basic physics principles. Term two is an overview of chemistry and earth/geology/astronomy

**Prerequisites:** Biology A and B

**Duration:** 2 terms

**Credits:** 2

### **Physical Science Concepts A, B, and C**

Physical Science Concepts is a three-term course. Concepts covered in physical science include the scientific process and an overview of basic physics principles. As well as an overview of chemistry and earth/geology/astronomy. The class is designed over a three-term time period and will fulfill the graduation requirement for Physical Science. Although the material is presented at a different pace than Physical Science A and B, it is the same curriculum. The student must successfully complete each trimester of the course to advance to the next term.

**Prerequisites:** Biology & Admin Approval

**Duration:** 3 terms

**Credits:** 1 per term

### **AP Biology A, B, and C (May be offered every-other year)**

AP Biology is a fast-paced, intensive elective science course for students who are highly motivated and have a strong interest in science. Major topics of study include biochemistry, cells, cellular energetics, genetics, evolution, organism structure/function, and ecology. As in a college biology course, this course has lecture and lab components. At the completion of this course, students are expected to take the College Board's scheduled Biology exam in May. Some students will earn college credit if they achieve high enough marks on this exam. To assist students in their preparation for this test, the format of assessments used throughout this course are similar to the AP Biology exam assessments.

**Prerequisites:** Teacher Recommendation  
Successful completion of Biology A-B  
Junior-Senior Standing  
**Duration:** 3 terms

**Credits:** 3

### **Chemistry A and B**

This two-term course will cover only basic concepts of chemistry and the application of those topics. There will be some theory, but more emphasis will be placed on the basic mathematics of chemistry, along with laboratory work to reinforce these concepts. The first term, Chemistry A, will study the nature and tools of chemistry, the properties and structure of matter, the periodic table and periodic trends, writing chemical formulas and balanced equations. The term finishes with the mole concept. Chemistry B studies stoichiometry, solutions, thermochemistry, and reversible chemical reactions and entropy. **Many four-year colleges require chemistry and/or physics; certain scholarships, such as those in engineering, require both.**

**Prerequisites:** Physical Science A & B;  
1<sup>st</sup>-year Algebra  
**Duration:** 2 terms

**Credits:** 2

### **General Physics A and B (May be offered every-other year)**

General physics is a two-term course that will introduce students to many of the main principles of physics. Physics serves as a basis for all other sciences. This class will take both a mathematical as well as laboratory approach to covering the material. Term A will focus on the properties of motion and the forces which cause motion. It will conclude by covering work and energy. Term B will focus primarily on the properties of matter, wave motion, and examples of these found in nature such as sound and light. **Many four-year colleges require chemistry and/or physics; certain scholarships, such as those in engineering, require both.**

**Prerequisites:** Physical Science A-B  
1<sup>st</sup>-year Algebra  
**Duration:** 2 terms

**Credits:** 2

### **Earth and Space Science**

Earth and Space Science is a one-term course investigating the geology, plate tectonics, and atmosphere of Earth as well as the composition and mechanics of bodies in the solar system, stars, galaxies, and the structure of the universe.

**Prerequisites:** Physical Science B recommended  
**Duration:** 1 term

**Credits:** 1

### **Ecology**

Ecology is the study of various aspects of our environment and the life within it. Ecology attempts to answer environmental concerns: What are the impacts of water pollution or habitat destruction? How can recycling help the environment? What keeps an ecosystem healthy? Ecosystems, biodiversity, and population growth will be covered as well as complex issues facing our environment, including human impacts and pollution.

**Prerequisites:** Biology A and B  
**Duration:** 1 term

**Credits:** 1







**Current Issues (May take 2 terms for credit)**

Students will learn about issues currently confronting the United States and the world. Students will be expected to analyze, evaluate and develop their own opinions on important domestic and foreign issues facing the nation and the world.

**Prerequisites:** Junior-Senior Standing or Approval **Duration:** 1 term  
American History  
**Credits:** 1

**Economics**

Economics is a one-term elective, which deals with basic micro and macro economic issues. The major topics are (1) economics systems and decision making, (2) supply and demand, (3) competition and market structure, (4) pricing, (5) employment, labor and wages, and (6) competition and the role of government, (7) investment strategies and goals, including the stock market, retirement, and business development.

**Prerequisites:** Junior-Senior Standing or Approval **Duration:** 1 term  
**Credits:** 1

**Psychology**

Psychology is a course in which students study theories of human behavior. Topics studied may include research methodology, human developmental and cognitive theories, biological psychology, and sociocultural concerns.

**Prerequisites:** Junior-Senior Standing **Duration:** 1 term  
**Credits:** 1

**Sociology**

This course deals with people in their relationships to others within their own culture and other cultures. Topics studied may include culture, deviance, social structure, stereotyping, prejudice, criminal behavior and diversity.

**Prerequisites:** Junior-Senior Standing **Duration:** 1 term  
**Credits:** 1

**IWCC Western Civilization: Early Modern to Present**

This course deals with the history of the western world from the early modern era to the present time. Topics include the Age of Absolutism, the Industrial Revolution and capitalism, the French Revolution and the Napoleonic Era, the rise of Nationalism and the German state, European expansion overseas, World War I, the post war period, Adolph Hitler and fascism, World War II, the Iron Curtain, third world development, and the contemporary period.

**Prerequisites:** Proficient on Most Recent ISASP **Duration:** 1 term  
**Credits:** 1 (3 college credits)



## **SPECIAL EDUCATION CLASSES**

Special education teachers teach the classes listed below to students identified as eligible individuals by an extended evaluation team. These students have Individualized Education Programs (IEP's) with goals that specify what they are working on and where that work happens -- in general education classes listed in this booklet or the special education classes listed below.

Enrollment in these classes comes from staffing team decisions based on the needs identified in the student's IEP.

### **Basic Reading A, B, C**

In this class students will be expected to read orally in a group and independently. Students will participate in read-alouds and discussions. Students will complete various decoding, word attack, phonics, word work, fluency, comprehension, summarizing and reacting to fiction and nonfiction text, and vocabulary exercises. Reading goals are monitored via various reading probes, diagnostic tests, and data from online reading programs.

### **Basic English A, B, C**

The primary goal of this class will be to develop literacy skills for students. The primary focus will be on growing and developing reading and writing skills. This class will address students' specifically designed instructional needs. These needs include but are not limited to the following: decoding, accuracy, and fluency skills as well as the conventions of writing, punctuation, and other grammar instruction. Additionally, students will work on improving writing skills. Writing goals are monitored via writing prompts and data from data from an online grammar program.

### **English/Language Arts Essentials A, B, C**

This course engages students in communication/language, speaking/listening, reading literature and informational text, and writing as they apply to functional literacy. The content in this course aligns with ELA Essential Elements.

### **Social Studies Essentials A, B, C**

This course enables students to study a group of related subjects addressing the elements and structures of human society that may include economics, geography, history, citizenship, and other social studies-related disciplines that align with the Essential Elements.

### **Science Essentials A, B, C**

This course combines more than one branch of science into a cohesive study or may integrate science with another discipline. General scientific concepts are explored, including the principles underlying the scientific method and experimentation techniques, and other science related disciplines that align with the Essential Elements.

### **Math Essentials A, B, C**

This course emphasizes the teaching of mathematics as problem solving, communication, reasoning, and highlights the connections among mathematical topics and between mathematics and other disciplines. This course approaches the teaching of general mathematics, pre-algebra, and pre-geometry topics by applying numbers, and algebraic and geometric concepts and relationships to real-world problems and other mathematical concepts as aligned with the Essential Elements.

### **Basic Math A, B, & C**

Students will work on math goals while learning the basics of order of operations, solving one-step, two-step, and multi-step equations. Math goals are monitored via various math probes, diagnostic tests, and data from online math programs.

### **Learning Strategies**

Students are placed in this class based on an IEP team determination. Students who have academic goal areas that are not being addressed in the general education classroom setting would benefit from this class.

**The following series of courses are designed to assist students to gain the necessary skills for independent, semi-independent, or supported living.**

### **Independent Living Skills**

Students will engage in units of study focused on and aligned with, civic learning, social-emotional learning, and functional independent living skills. This course is individualized and concentrates on IEP goals, including basic living skills of everyday life. Included are housekeeping, grocery shopping, cooking, laundry, social skills, using transportation services, understanding maps, possible housing opportunities and knowledge of businesses around our community, and extended learning opportunities through community outings. This course is designed for students with significant disabilities.

### **Work Skills Essentials**

This course covers topics found in Workplace Readiness such as resumes, job applications and job interviews. Work skills development can include appropriate dress, behavior, communication skills, general workplace expectations, and career exploration. Students will learn job-seeking and job-keeping skills. Within this course, students may experience hands-on work-related tasks with support from the special education teacher. This course will serve to develop skills that will be enhanced through classroom instruction, as well as allow them to possibly participate in short workplace immersion or simulation.

### **Cooperative Work Experience**

This course is the recommended prerequisite for special education students who are candidates for community work experience. Students will learn through experiences of hands-on work-related tasks with support from the special education teacher, support staff, general education teachers, and classified staff. This course will serve to develop skills that will be enhanced through on the job experience within the school district, that allows them to participate in workplace immersion or simulation. Students who have met the course placement criteria will be eligible for this course.

### **Community Work Experience**

This course is for special education students who have been identified as students that have gone through Cooperative Work experience and have demonstrated the skill set to progress out into the community for their transition to the world of work. The objective is to place students in an environment where they can learn through on the job experiences, job-keeping and then to assist them in work placement in the community. This involves job-placement monitoring.

## OTHER COURSES

### Office Aide

High school aides will assist with routine clerical tasks as assigned by office personnel.

**Prerequisites:** Approval of Administrator, Junior-Senior Standing      **Duration:** 1 term  
**Credits:** 1/4 (.25)

### Elementary or High School Teacher Aide

Elementary aides will primarily work with teachers as student aides in reading; they will also assist staff members in completing other routine tasks. Applicants for this class must be in good academic standing and be dependable, or they will be dropped from the class.

**Prerequisites:** Junior-Senior Standing & Approval      **Duration:** 1 term  
**Credits:** 1/4 (.25)

### Connections to Graduation (CTG) or Credit Success Support (CSS)

Students eligible for this class in the high school exhibit behaviors that may lead to dropping out of school. Helping students graduate on time has always been the goal for Lewis Central staff and administration. Connections to Graduation/Credit Success Support class will help students achieve this goal through continued monitoring of grades as well as academic and graduation progress. Time will be spent setting goals, journaling, and learning strategies for academic success. Additionally, students have the opportunity to work one-on-one with a teacher or peer tutor during this class. The criteria used to determine enrollment eligibility include attendance, no connections to school, lack of credit accrual/progressing in school, and low achievement in reading or math. The students' discipline/truancy records are also taken into account as well as a teacher interview to determine motivation, barriers, and goals.

**Prerequisites:** Counselor approval      **Duration:** 1 term  
**Credits:** 1 (repeatable for credit)

### Success Strategies

This course, open to 9th-12th grade students, offers a comprehensive analysis of different types of motivation, study habits, and learning styles. This one-trimester course encourages high school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this one-trimester course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

**Prerequisites:**      **Duration:** 1 term  
**Credits:** 1